

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

AUGUST 1, 1957

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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**Forms for the September 1 issue will close Friday, August 9.**

**Forms for the September 15 issue will close Friday, August 30.**

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# AMERICAN NURSERYMAN

F. R. KILNER  
*Editor and Publisher*

FRED H. KILNER  
*Managing Editor*

C. A. BRADY, Jr.  
*Advertising Manager*

## Editorial

### THE MEASURE OF PRICES

The questions whether the prices of nursery stock are too high or too low, whether they should be raised and how much, can only be answered intelligently if there is maintained a system of bookkeeping to ascertain accurately the cost of the stock produced and the cost of doing business. Any other method of arriving at a conclusion is dependent upon guesswork or theorizing.

The retail grower makes a definite mistake when he figures the cost of the stock he grows to be the same as the prices quoted in the catalog of a neighboring wholesale grower. The latter definitely is able to produce stock more cheaply, because he grows it in larger quantity, he operates on cheaper land, he is able to do his planting and digging at the proper time without diversion to attend to retail trade, and his cost of labor and supplies is likely to be lower.

Often the retail and the wholesale grower are self-satisfied because they show a profit at the end of the year on top of a salary for the owner. But whether either the profits or the salary is adequate depends on the sales volume, the amount invested in land and inventory, the size of the organization and the amount of time that the owner devotes to the business. There are plenty of nurserymen who will live comfortably, but who derive neither salary nor profits adequate to the size of their business, the amount of capital or the time and energy they put into their businesses.

Some nurserymen believe that the prices of their stock should be higher because the prices of most other commodities are higher. Yet there are exceptions in other industries, and there may be some exceptions here. Some commodities are lower in price than they used to be, either because of a more plentiful supply or because they can be manufactured more cheaply or of substitute materials. Are nursery operations more efficient than they were a generation

## The Mirror of the Trade

ago, or have mechanical methods enabled the nurserymen to produce some stock more cheaply than formerly?

The various questions relating to nursery stock pricing cannot be answered by guesswork or theory or comparison, but only by an accurate knowledge of costs. More nurserymen are installing thoroughgoing accounting systems every year, but still they are not in the majority, particularly as to costs of production.

### MORE STUDENTS

Although there has been a tremendous increase in the enrollment at colleges and universities all over the country in recent years, there has been no proportionate growth in the number of students studying horticulture at those institutions. In a number of them, students preparing for the occupation of florist largely predominate. Those who specialize in preparation for the nursery field are few indeed, especially if one eliminates the sons of nurserymen.

From this state of affairs it is evident why youthful trainees are not more numerous in the nursery industry. The greater part of the trade's growth in the past decade has been provided by older persons who were interested in plants as a hobby, who sought an outdoor occupation or who had a kindred interest in this occupation. For further advance, to bring this industry to the level of the occupations for which wider education and training are provided, it is believed by those at our educational institutions and by many nurserymen, also, that a greater enrollment is necessary in courses in horticulture. But there is little done to attract the enrollment of students from outside the industry. There are not the newspaper and magazine articles on the wide opportunities in horticulture that one sees for the engineering field, or on the need for men and women trained in science to enter medical or other professions now in the limelight.

Nowadays representatives of large corporations, banks and employment agencies present their opportunities, in addresses and interviews, to the graduates of high schools and colleges. Indeed, the engineering field is recruited at an earlier age, for most grade schools provide courses in manual training and shop work, while every large community has one or more technical high schools. In contrast, one finds hardly a course

in botany, let alone general horticulture, taught in a high school or junior college, and such is the age of specialization that after the student enters college, he scarcely knows about the department of horticulture, let alone feels any inducement to transfer to its curriculum.

In some states a futile attempt has been made, by the joint effort of the state university and the state nurserymen's association, to provide information to high school pupils about the opportunities for education and training in horticulture. This would seem a logical procedure, but vastly more must be done if the nursery industry is to draw young people from outside the field and induce them to invest in several years of college education to fit the opportunities that may be here. Certainly the opportunities are present, and who knows but that specially trained young men of energy and ambition will make the opportunities still greater?

### POOL PROMOTION

Few wholesale nurserymen, aside from the growers of patented roses and other novelties, provide their retail customers with dealers' helps and other merchandising aids, such as are furnished by producers in other industries. The difficulties are understandable, because the wholesalers do not have brand merchandise unless they offer novelties, there are geographical limitations and the question is raised whether the material provided will be given good use. Yet there are wholesalers, as well as retailers, who believe that something of this sort should be done in order to advance the industry of which they are a part.

Similarly, there is a need for cooperative advertising expressed by some retail nurserymen, yet in few places has there been sufficient effort made to bring this to pass. Mechanical and collection difficulties are the chief obstacles.

These two projects might be combined, the wholesaler leading the way to cooperative advertising in his home sales territory. He might contribute to the fund himself and act as a collection agency for the cooperating retailers. Salesmen who do not have to fight for wholesale orders now might do missionary work on this project, and the firms undertaking such a service would reap benefit in trade good will, as well as resultant sales to the public.



# Profit from Group Accounting Plan

By Jack F. Schneider

Approximately eight years ago, a group of California nurserymen in the San Francisco area banded to set up a common accounting system that is still paying dividends in more efficient operation of their business and in greater profits. The nurserymen are known as the Lindquist group, since Rudy Lindquist, of the San Francisco accounting firm of Lindquist, von Husen & Joyce, has guided the operation through the years.

Originally, about 12 nurseries entered the system, and today a few more have been added so that the group now numbers approximately 16. These 16 nurseries have a combined gross volume of sales in excess of \$2,000,000 a year; so the figures presented in this article represent a large cross section of nursery and garden supply business.

The gist of the procedure is that at the end of the fiscal year, each nursery turns over its profit-and-loss statement to Mr. Lindquist, who proceeds to evaluate the results and derive average figures for the group. He then issues a report to the participants showing how the statement of each compares to the average figures. During the year, monthly figures of sales and wages are supplied by each participant to the Lindquist firm, which in turn compiles and mails back to each member a monthly comparative data sheet.

## Uniform Procedure

The first step toward this system, taken in 1949, was the setting up of a uniform bookkeeping procedure for each firm. This entailed a great deal of work in the revision of many of the accounting systems. It was found that several nurserymen kept poor records. Many made no allowances for such things as management expenses, rent, etc. These various costs were worked out, and a fairly comprehensive bookkeeping system was formulated for all of the nurserymen to follow.

One of the major problems encountered in setting up the system was the fact that some nurseries combined wholesale growing with their retail operations. A separation had to be made, and later it was found that many of the wholesale operations were not so profitable as the owners had imagined.

Under the present procedure, the growing operation expenses are kept separate from those of the retailing

operation, and all of a nursery's home-grown material sold at retail is first "bought" from its wholesale operation at the current wholesale price. In this way, it can be ascertained whether the growing operation is making a profit. Also, wholesale profits (if any) can be kept from enlarging the retail profit and giving an unrealistic picture.

## Mechanics of Plan

The actual mechanics of the procedure are fairly simple. Various categories are set up for purchases. Each check written or cash disbursement made is posted into a ledger and charged against the proper department or category. Wages are charged against the department in which the service was performed, such as selling, office, etc. Expenses are also charged against a given set of classifications such as heat, telephone and insurance. Once these procedures are set up and followed, the mechanics become easy. A similar system must be followed with regard to inventory at year's end in order to determine the cost of merchandise sold.

At the end of the fiscal year, a nursery participating in the system must arrive at its gross profit for the year by taking the total purchases of the year and adding to them the

beginning inventory. The result represents all of the stock for the year, either purchased or on hand. From that total is subtracted the final inventory, for the latter represents actual money left over at the end of the year. The difference between the resulting figure and the total sales is gross profit. The following example illustrates the process:

Gross sales for year.....	\$100,000
Purchases .....	60,000
Beginning inventory ....	15,000

Total .....	\$ 75,000
Ending inventory .....	20,000

Cost of merchandise sold	55,000	55%
Gross profit on sales.....	\$ 45,000	45%

These figures of 55 per cent and 45 per cent are actually what the entire group averages for the year. Incorporating these figures, a typical statement would continue as shown in the table in the center column.

## Net Profit

Naturally, the first figure the reader will look at is that showing net profit. The participating nurserymen feel that the 3 per cent figure is too low and should be improved. However, before jumping to conclusions, one should examine the list of items charged off against the gross profit and see how many he may be overlooking in his own operation. Many nurserymen fail to make some of these allowances.

Closer analysis of the figures is interesting. The 55 per cent cost of goods sold is a figure that can be improved upon only by better buying and more rapid turnover. The lower this figure becomes, the higher becomes the gross profit figure. Ideally this figure should drop to 50 per cent, giving a 50 per cent gross profit, thereby increasing the net to 8 per cent.

Buying is one of the often neglected parts of the nursery business and will be dealt with in a later article. Turnover helps free dormant capital for better usage. The 55 per cent cost figure illustrated to the group that nursery stock has to have a high markup in order to produce a reasonable net profit. The group found that for adequate profit balled and canned material should be priced at two and one-half times its cost and bare-root stock (with the exception of patented roses) at three times its cost. Losses, care and replacements

[Continued on page 77]

	Per cent
Sales .....	100.
Cost of merchandise sold.....	55.
Gross profit on sales.....	55.
Operating expenses:	
Salaries and wages:	
Management .....	5.
Selling and delivery*.....	15.
Office .....	3.
	23.
Other expenses:	
Advertising .....	3.5
Traveling and promotional....	1.4
Auto and truck .....	1.8
Rent .....	1.2
Water, heat, light and power..	1.
Telephone and telegraph.....	.6
Maintenance and repairs .....	1.
Insurance .....	1.
Professional services .....	.5
Taxes .....	1.8
Bad debts or allowance.....	.2
Depreciation and amortization.	2.5
Miscellaneous other .....	2.5
	19.
Total other expenses.....	19.
Total operating expenses....	42.
Net Operating Income .....	3.

\*This may contain wages for owners engaged in selling.

# Southwest Groups Elect At Annual Joint Meeting

By Joe M. Clark

Meeting jointly for the third consecutive year, the Plains Nurserymen's Association and the New Mexico Association of Nurserymen were in convention at La Fonda hotel, Santa Fe, N. M., June 16 to 18. Both organizations elected new officers for the coming year at separate sessions on the final day of the convention.

Tom Scarborough, Tom's Tree Place, Lubbock, Tex., was chosen president of the Plains group, including nurserymen in a vast portion of west Texas. A. C. Carter, Carter's Ysleta Nursery, Ysleta, an El Paso suburb, was picked as vice-president, and Charles Black, El Paso, was elected secretary-treasurer. Wilson Holden and John L. Vaughn, both of Lubbock, were named to the board of directors of the Plains Nurserymen's Association.

## New Mexico Election

John F. Malloy, Albuquerque, was elected president of the New Mexico organization, and James VanderSys, Santa Fe Nursery & Greenhouses, Santa Fe, was chosen vice-president, with the office of secretary-treasurer to be filled by appointment in the near future. Mrs. Dan Carpenter, Carpenter Nursery & Garden Center, Roswell, and Walter Gray, Gray's Flower Shop & Nursery, Albuquerque, were elected as

new board members of the New Mexico group.

Registrations and exhibits both opened the first day of the convention in this, the oldest capital city in America. Both boards of directors held evening meetings at the hotel.

Brief speeches of welcome were given at the first general business session Monday morning, June 17, by Santa Fe's mayor, Leo T. Murphy, and chief of police, A. B. Martinez.

Major current problems of nurserymen in the southwest and the various vital services rendered by the American Association of Nurserymen were outlined by the principal speaker, C. J. Lauden, Tyler, Tex. Speaking as regional director of the A. A. N., Mr. Lauden emphasized the opportunities inherent in the increasing trend toward industrial and institutional landscaping. He also stressed the importance of roadside planting in connection with the current nation-wide project for the improvement of federal-state highways in all regions.

Mr. Lauden discussed the new fair trade practice rules, wage-hour laws and regulations as they affect nurserymen and FHA loans for landscaping.

The opening session also heard Joe M. Clark, Santa Fe garden edi-



New officers of the New Mexico Association of Nurserymen: John F. Malloy, president, at left, and James VanderSys, vice-president.

tor, who spoke on "Southwestern Gardening" and answered questions on horticulture at a 7,000 foot elevation which is the altitude of Santa Fe and several other towns in northern New Mexico.

## Visit Los Alamos

Many of the conventioners, their wives and families formed a motorcade for a 30-mile drive to Los Alamos, where they visited five private gardens and viewed public landscaping in the Atomic city.

The convention program for the day was climaxed by a barbecue supper at Hyde state park, nine miles from Santa Fe, at a chilly elevation of 9,000 feet.

President of the Texas Association of Nurserymen, R. C. Aldridge, Aldridge Nursery, Von Ormy, near San Antonio, Tex., was among the distinguished guests introduced at the morning business session June 18. T. A. N. executive secretary, William Fullingim, Austin, also was among the guests at the joint convention.

Dallas Rierson, director of New Mexico's state department of agriculture, addressed the business session, discussing the work of his department as it affects nurserymen directly and indirectly.

A sales panel discussion, led by A. C. Carter, brought out the varied factors and approaches toward the matter of increasing sales volume and customer satisfaction as well.

Tom Scarborough led a lively discussion of landscaping which veered to consideration of the matter of attaining professional status through

[Concluded on page 45]



Newly elected officers of the Plains Nurserymen's Association: Left to right, Wilson Holder, director; Tom Scarborough, president; A. C. Carter, vice-president, and John L. Vaughn, director. Charles Black, not pictured, was named secretary-treasurer.

# First Illinois Short Course

Talks on Extension Work, Weeds, Tree Diseases, Insects, Lawns and Propagation

By H. R. Kemmerer

Louis B. Howard, dean of the college of agriculture at the University of Illinois, Urbana, welcomed 100 nurserymen to a short course given June 26 and 27. The course was sponsored by the department of horticulture and the Illinois State Nurserymen's Association.

The short course was the first strictly educational meeting presented for the trade in Illinois. Discussions were based on services and facilities that the university has available to help nurserymen in the production of nursery stock and on other problems.

The sessions were filled with worthwhile discussions. However there was time for two relaxing luncheons and a banquet. Entertainment at the banquet Wednesday evening was provided by a barber-shop quartet. The group also had a chance to hear a concert by the university's summer orchestra.

Women were not slighted in the program. The first afternoon they made their own corsages for the banquet. On the second day they toured the floriculture greenhouses, annual test garden and the Home Economics building.

Because of the enthusiastic response of the nurserymen at the course, efforts will be made to make it an annual event.

After Dean L. B. Howard's welcoming remarks to the group after lunch in the Illini Union building, Dr. C. J. Birkeland, head of the department of horticulture, spoke on the "Status of Ornamental Horticulture at the University." The university has three divisions in the department of horticulture — pomology, vegetable crops and floriculture. In addition to its academic curriculum, the university maintains an agricultural experiment station at Urbana, an Illinois horticulture experiment station at Carbondale and a drug and horticulture experiment station at the Morton Arboretum, Lisle. The three areas of the department are teaching, research and extension.

## Nursery Management Courses

In the teaching field the university offers 14 courses for undergraduate and graduate students in floriculture. Advancement is being made by the addition of courses in nursery management. Also available are

courses in botany, chemistry, weed control, insect control and business subjects.

## Nursery and Landscape Extension

In extension and research, according to Dr. Birkeland, a staff member visits the nurserymen and florists. Dr. C. E. Ackerman handles this work. H. R. Kemmerer is the landscape extension specialist. The extension service works with farmers and homeowners, helping them landscape their property. It also works with city councils and other civic groups on city beautification. The

ultimate goal is to make the entire Illinois landscape more attractive. To further this long-range project in landscaping, many circulars and pamphlets are available and may be obtained by writing the extension service or the United States Department of Agriculture.

Research at the university, Dr. Birkeland continued, is being carried on in many different fields. Among varied experiments are those being conducted in lawn grasses, hedges, mist propagation and rootstocks. While the university maintains no arboretum at Urbana, a small section near the president's home is being used for work on trees and shrubs. Allerton park, at Monticello, Ill., owned and operated by the university, contains formal gardens open to the public. An arboretum is also being developed at the experiment station at Carbondale. The arboretums will be used for testing hardiness and landscape adaptabilities of new horticultural varieties of ornamental woody plants.

## Agricultural Extension

Dr. W. G. Kammlade, associate director, agricultural extension service, then spoke on "Agricultural Extension in Illinois."

Agricultural extension work was established by an act of Congress in 1914. It was set up to include the 48 states of the Union and Alaska, Hawaii and Puerto Rico. Funds for the service are allocated on the basis of the rural and the farm population of the state in relationship to total rural and farm population of the United States.

Agricultural extension work, according to the Smith-Lever act, which defines it, "shall consist of the giving of instruction by lecture, demonstration, publication and otherwise on subjects of agriculture and home economics and related areas." Dr. Kammlade went on to explain how the service executes this. Through the home advisers, one of whom is assigned to each county, rural and farm women may obtain advice in a great number of fields. Through the farm advisers, one of whom is also located in each county, the service works on the agricultural aspects. The extension work is divided into four fields — production, marketing, living and general information. There is a wide array of

## ILLINOIS SECRETARY



Harleigh R. Kemmerer

Harleigh R. Kemmerer, elected secretary of the Illinois State Nurserymen's Association at the group's January convention, was born at Freidensville, Pa. After serving with the United States Navy in the Pacific theater during World War II, he attended Pennsylvania State College, majoring in landscape design and construction, and received his bachelor's degree in horticulture in 1949. He continued his studies at the college with graduate research in ornamental horticulture, principally in the problems of plant propagation, and received a master's degree a year later.

He has been associated with the University of Illinois, Urbana, since 1950 and now holds the position of extension specialist in landscape gardening. He is the author of two of the university's agricultural extension circulars, "Pruning Narrowleaf Evergreens" and "Foundation Plantings," and has collaborated in the writing of several other circulars on planning and planning home grounds.

Mr. Kemmerer is married and has three children.



related subject matter in extension work; 4-H Clubs for young people are active. There are plans to start clubs in the Chicago area.

### Aid for Everyone

The agricultural extension service is financed partly by funds appropriated by the federal government and the state legislature. The sums allocated by each are equal. In addition to these, the farm and home bureaus contributed \$259,000 this year for extension work. Since the farm and home bureaus contribute such a significant amount, it is sometimes thought that the only persons standing to benefit are farm people. This, however, Dr. Kamm-lade stated, is a misconception. Anyone may seek help from the extension service.

Extension service works informally. Participation in extension work is voluntary. It is a self-help program insofar as it will provide anyone with the necessary information and assistance, but from there on it is up to the individual, and the results are his own. At the present there are about 360 persons on the extension staff in Illinois.

The need for landscape extension was emphasized when Dr. Kamm-lade mentioned that in a Cook county survey asking people what aid they most desired from their agricultural college, 1,600 out of 2,000 mentioned that they would like to have more information on landscaping.

### Landscape Extension

H. R. Kemmerer, landscape extension specialist, continued the program, stating that the landscape extension work in the state began in 1916. It was originally a plan-drawing service. The plan-drawing service was discontinued when it became apparent that while people were requesting plans, they were not carrying them out. A landscape design program was then begun, and this eventually turned into a landscape demonstration project.

Most of the attention is centered on farmsteads. The project begins with a general introduction type of meeting. A series of news releases is disseminated, and everyone in the county is invited to come to the meeting. At the meeting, selection is made of six different farms in the county to be used for demonstration purposes. These farms are selected with regard to their respective settings and different landscaping possibilities. Then follows a series of plan studies. The extension specialist visits the six individual farms,



Charles H. Perkins, president of Jackson & Perkins Co., pictured as he was presented the Massachusetts Horticultural Society's large gold medal during the 26th annual rose festival at Newark, N. Y.

looks them over and makes suggestions to the farmers. Over a 3-year period they will have a complete landscape plan. After the project is complete, a tour, open to the public, is made to show what can be done in the way of landscaping.

The landscape specialist, Mr. Kemmerer went on to explain, makes a plant list for the cooperators, who then take it to their nurserymen. The use of different types of plants is encouraged.

### Communities Included

In community beautification projects, the landscape specialist is concerned primarily with the landscaping of public buildings, such as schools, courthouses, libraries, etc. The purpose is to show people what can be done to beautify their public buildings. Mr. Kemmerer cited several cities where he had been engaged in this type of project. Many times these projects are financed by civic groups or local agricultural groups. Tours are made of the community. The local nurserymen are encouraged to participate in the program.

Many queries reach the extension specialist from persons in the state. As many as possible of these queries are turned over to the farm and home advisers, but these people are trained in general agriculture and cannot always answer specialized questions about landscaping. Many publications, such as pamphlets and circulars, are available from the extension service to assist the general public. Radio stations are supplied with programs on landscaping and plant care. Talks and speeches are recorded and sent to radio sta-

tions for rebroadcast. News releases are sent to all newspapers in the state. Every month timely information is sent to all farm advisers for use as county news releases. A series of slides and a short talk are prepared and sent to state TV stations for use.

Mr. Kemmerer then showed a series of slides designed to illustrate the practicality as well as the beauty of proper landscaping. He stressed the importance of maintaining simplicity in landscaping in the individual home. In community beautification projects, emphasis is laid upon developing unity, and an effort is made to get school and church groups genuinely interested in landscaping.

Burton Miller, agricultural statistician, [Continued on page 80]

### PERKINS AWARDED MEDAL

In recognition of his lifetime work with roses, Charles H. Perkins, president of the Jackson & Perkins Co., Newark, N. Y., was presented the large gold medal of the Massachusetts Horticultural Society during the 26th annual rose festival conducted at Newark.

Speaking at a ceremony in the 17-acre Jackson & Perkins rose garden, Arno H. Nehrling, executive secretary of the Massachusetts society, declared Mr. Perkins had, over the years, directed his efforts toward making the rose the nation's best loved flower and had been closely associated with the rose world since he was 12 years old—a record which few rosarians in America could claim.

Listing some of the contributions made by Mr. Perkins to the rose world, Mr. Nehrling said the varieties which had been developed by Mr. Perkins' company, as well as those it had introduced from Europe, had greatly enriched gardens. The research program conducted by the firm and its part in founding the All-America Rose Selections are further evidence of its contribution to American horticulture.

Under Mr. Perkins' leadership, Mr. Nehrling continued, the Jackson & Perkins Co. has expanded, with branches in Arizona, California, Delaware, Indiana, New Jersey and New York, and the fame of the company has also grown.

At the conclusion of the ceremony, Ralph E. Perkins, treasurer and sales manager, read congratulatory messages from many leaders in the garden world and heads of competing companies. Master of ceremonies was Clarence G. Perkins, president of Jackson & Perkins of California.



# Research Talks at Virginia Convention

By Charles L. Otey

The summer convention of the Virginia Nurserymen's Association opened Sunday afternoon, July 7, with registration at the campus of Virginia Polytechnic Institute, Blacksburg. After a social hour and buffet at the University Club, slide pictures were shown for the entertainment of the evening.

Monday, President John E. Tankard, Tankard Nurseries, Exmore, Va., called the meeting to order, and after the introduction of guests and visitors, the association was welcomed to V. P. I. by L. B. Dietrick, dean of agriculture.

Dr. W. P. Judkins, head of the department of horticulture, made the introductory address on "New Developments of Interest to Nurserymen." Dr. J. H. Tinga, of the department of horticulture, spoke to the group on "Greenhouse Cooling and Automatic Watering." Dr. Tinga related that the usual way to cool greenhouses is to use shade, but this in effect cuts out too much light. Dr. Tinga stated that humidification allows the proper light to root materials and to grow crops. For subirrigation of container-grown plants, Dr. Tinga described a watertight bed constructed of plastic and having the soil covered with three inches of sand. A float valve maintains a constant water table, and water moves through the sand to the soil in the container by capillarity. This, concluded Dr. Tinga, is a labor-saving method, semiautomatic, with a proper water table and a regulated water supply.

## Turf Topics

Prof. A. G. Smith, Jr., of the department of horticulture, the next

speaker, talked on "Turf." He stated that there were no short cuts to a good lawn and told the nurserymen that unless the mechanical structure of the lawn area is properly constructed, lawn grasses cannot exist. Professor Smith supplied literature in regard to the recent field day at the eastern Virginia research station at Warsaw. Displayed there are about 200 experimental plots, including various Bermuda and zoysia grasses. Other plots include commercial mixtures, bluegrass and bluegrass sprigged with Bermuda grasses. Other areas under test include plots prepared prior to seeding with manure, sawdust, ammonium sulphate and 6-8-2 fertilizer. Professor Smith also gave the nurserymen a chart in which he had estimated the percentile average coverage of the grasses under test.

R. C. Moore, of the department of horticulture, spoke to the group on the evaluation of certain nut species. Mr. Moore stated that the trees are not adapted to commercial nut growing in Virginia, but do make ornamental shade trees and supply nuts for family use.

## Plant Pathology

Dr. S. A. Wingard, of the department of plant pathology, stated that the diseases of nursery plants may be grouped according to causal agents and according to the part of the plant affected. Diseases according to causal agents are (1) fungus, (2) bacterial, (3) virus and (4) nematode. According to the part of the plant affected, diseases may be thought of as those of (1) root and crown and (2) stem or foliage. Stem and foliage diseases in most cases

may be controlled with fungicide sprays, sanitation and cultural practices, Dr. Wingard stated. The root and crown diseases are not amenable to control by fungicide sprays and in most cases must be prevented.

Dr. Wingard urged the nurserymen to spray regularly during the growing season with a mixture of fungicides and insecticides that will control the common diseases, such as leaf spot, mildew, rust and anthracnose, and such common pests as scale, red spiders, aphids, leaf hoppers, leaf beetles and caterpillars.

Dr. S. S. Obenshain, of the department of agronomy, showed the nurserymen types of soils and explained the conditions of depth in regard to poor drainage, hard soil structure and "wet feet." He urged the nurserymen of Virginia to take advantage of the detail soil maps and expert soil help available throughout the state.

## Pest Control

Dr. J. M. Grayson, of the department of entomology, said that scale insects may be satisfactorily controlled by spraying with malathion when they are in the crawler or newly set scale stages. One and one-half pints of the 57 per cent emulsifiable concentrate of malathion to 100 gallons of water should be used. Additional sprays at 10-day to 2-week intervals may be necessary.

The holly leaf miner is a common pest on a number of species of holly. Large blister mines are made on the upper surface of the leaves. There is one generation a year, and the winter is passed in the larval stage in the mines. The larvae mature and pupate in the mines during March,



Staff of Virginia Polytechnic Institute who participated in the program for the summer convention of the Virginia Nurserymen's Association, with V. N. A. official: Left to right, Dr. W. P. Judkins; R. C. Moore; Dean L. B. Dietrick; John E. Tankard, president, V. N. A.; Prof. A. S. Beecher; Prof. A. G. Smith, Jr.; Dr. S. A. Wingard; Dr. S. S. Obenshain; Dr. J. M. Grayson, and Dr. J. H. Tinga.

and the adults emerge usually during April. Sprays of DDT, one and one-half pounds of actual DDT to 100 gallons of water, are effective in control if they are properly timed to kill the adults of leaf miners. For killing the larvae in the leaf mines, however, a spray of malathion (two pints of the 57 per cent emulsifiable concentrate to 100 gallons of water) should be used. Dr. Grayson gave other control measures for the boxwood psyllid, the juniper webworm, the Nantucket pine-tip moth, green June beetle larvae, the dogwood borer, the iris borer and the Japanese weevil.

Dr. W. E. Chappell, of the department of plant physiology, showed slides on extensive weed-control research at several nurseries in Virginia. He also passed around for inspection vermiculite, ground tobacco stems and attaclay, which were used in experiments as agents to carry dinitro for weed control.

In the afternoon, the group enjoyed a guided tour of V. P. I. and a recreational period. The social hour, dinner and dance were held at the Governor Tyler hotel, Radford. The evening entertainment was an illustrated slide program of the Blue Ridge parkway, by Donald H. Robinson, parkway naturalist.

#### Research Tour

Tuesday, the nurserymen viewed the research projects at the V. P. I. arboretum and greenhouses. The tour was conducted by Dr. J. H. Tinga, and experiments at the stations toured included the following: Black plastic for weed control in the garden; brush killer; plastic lining for a leaking pond; oil for control of established weeds; collection of new plants, including dwarf and low-growing plants; effect of long days on plant growth; lightweight media for container-grown plants; size of cuttings in mist propagation; weed control in cans; subirrigation of container-grown plants; mist propagation; plastic hose irrigation; calyx split of carnation; constant water level on carnations, and effect of gibberellin on plant growth.

At 11:45 a. m. the business session of the convention was presided over by President John E. Tankard. Dan F. Reynolds, of L. A. Reynolds Co., Winston Salem, N. C., extended an invitation to the Virginia group to attend the Southern Nurserymen's Association meeting, August 11 to 13, at Charleston, S. C., and also invited nurserymen who were not members to join the Southern Nurserymen's Association.

After a report by the secretary in

regard to a joint V. N. A. and S. N. A. meeting in September, 1958, a motion was made by Wendall L. Winn and seconded by S. E. Quillen that the Southern Nurserymen's Association be invited to meet jointly with the V. N. A. in September, 1958. This motion carried.

#### Insurance Plan Change

W. B. Higgs, chairman of the insurance committee, explained the aspects and benefits of the group insurance major medical plan and referred to the recent request of the committee, which was published in the newsletter, for a management board of trustees to provide a measure of security in control of the group insurance plan now in effect. A motion was made by J. R. Richardson and seconded by W. B. Higgs that the management of the insurance program be transferred to the participating members, that they select from their membership a board of trustees as they see fit, that the participating members meet as soon as possible and that a copy of the motion be sent to them. The motion was carried unanimously. Adjournment followed.



Dignitaries present at the opening of the Flora M. Wyman auditorium: Seated, Dr. Richard Howard and Richard M. Wyman, Jr.; standing, Arnold Nehrling and Howard P. Quadland.

#### WYMAN FACILITY OPENED

A dedication ceremony of the new Flora M. Wyman auditorium was held Thursday, June 20, at Wyman's Garden Centers, Inc., Route 9, Framingham, Mass. The auditorium, seating about 200 persons, was designed and built to furnish meeting facilities for garden clubs and other groups interested in gardening and horticulture. It is completely air-conditioned and equipped with kitchen facilities and a projection

room for the showing of slides and motion pictures.

Featured speakers at the occasion were Mrs. Foster Furcolo, who greeted the group as first lady of the commonwealth, and Howard P. Quadland, director of information of the American Association of Nurserymen. Carl de Suze, Boston radio personality, was the master of ceremonies.

Guests present included Arno Nehrling, managing director of the Massachusetts Horticultural Society, Boston; Dr. Richard Howard, director of the Arnold Arboretum, Jamaica Plain, Mass., and Richard M. Wyman, Jr., of Wyman's Garden Centers, Inc.

The auditorium is named after the mother of Richard M. Wyman, Sr. Commenting on the reason for constructing the building and offering it to the public, Mr. Wyman said, "It has been our experience that, every year, more people are eager to learn more about gardening. The tremendous growth in the number of homeowners during the past decade has awakened new and wider interest in gardening activities. The Flora M. Wyman auditorium was built to fill a widespread need for a suitable meeting place for those with a common interest in gardening."

#### HONOR C. E. LEWIS

Tuesday, June 25, at the business meeting of the Long Island Nurserymen's Association held at the Vienne Coach restaurant, Syosset, the guest of honor was Clarence E. "Clancy" Lewis, of the Long Island Agricultural and Technical Institute, Farmingdale. Mr. Lewis is leaving the institute after 18 years to assume a new position at Michigan State University, East Lansing. As a token of appreciation for many years of helpful service, the Long Island Nurserymen's Association presented Mr. Lewis with camera equipment.

The speaker of the meeting was Edward Kirk, director of the division of plant industry, department of agriculture and markets at Albany. Mr. Kirk spoke of his work in the state and of the new legislative amendments that his bureau would like to see enacted for the nursery industry.

ANNOUNCED by the bureau of plant quarantine, California department of agriculture, was the July 1 opening of a new state plant quarantine station on the Amboy-Twenty-nine Palms county road near Twentynine Palms, Calif.

# Opportunities for Arborists In Highway Landscaping

By Oliver A. Deakin

There are many ways in which arborists may contribute to the tremendous task of landscaping 41,000 miles of roadsides in the new national system of interstate and defense highways.

The purchase of 300-foot limited access right of ways during the next 13 years for these new interstate highway facilities will result in the acquisition of many thousands of acres of native woodland that will require varying degrees of attention during construction and maintenance. Even during the design stage the technical knowledge of arborists could be of considerable help to state highway departments that have no landscape bureaus and to engineering consultants who need technical help with problems relating to the conservation, protection, and care of trees during construction of an expressway.

## Arborist's Contribution

The arborist's greatest opportunity to contribute will be contracting to do some of the actual tree work that will be necessary in the construction of the interstate system. Salvage and moving of valuable trees and shrubs from within the graded width of these new highways must be undertaken in advance of the

Address, "Opportunities for Arborists in Highway Landscaping," presented by Oliver A. Deakin, parkway and landscape engineer, New Jersey state highway department, at the annual meeting of the National Arborist Association at New York, N. Y., last February.

clearing of the site. This highway landscape contract item will consist of digging and baling valuable native trees, shrubs and ground covers that may be economical to salvage. They will be transported to permanent locations on the highway right of way as part of the over-all landscape treatment for the roadside.

## Salvage Work

Some of the plants considered valuable for salvaging in New Jersey are mountain laurel, bayberry, blueberry, azalea, inkberry and black haw. Trees considered valuable are pin oak, red maple, gray birch, flowering dogwood, American holly, shad-blow and red cedar.

Valuable specimen shade trees will require protection during construction. It must be determined which trees near the construction limits are worth saving. They will then be barricaded against mechanical injury by heavy construction equipment. Further protection may be required in the form of welling and root aeration because of a change in grade brought about by filling. Trees that are affected by cutting the grade may need special backfilling to protect their root systems from changes in drainage conditions and from exposure to high temperatures in the summer.

During construction, water damage to valuable woodland stands of trees may be caused by allowing low areas to become flooded. Adequate drainage should be provided and existing ditches kept clear. Protection



Trimming of existing shade trees near the edge of the shoulder or in the median strip of the highway is done in order to remove hazardous limbs and preserve valuable roadside trees.

against water damage should be included in the specifications prepared by the highway department staff or the highway consulting engineer.

## Selective Thinning

Selective thinning and cutting for safety will include removal of live and dead trees, both standing and fallen, shrubs and other vegetation and debris designated for removal to provide adequate sight distance on curves and grade separations. A cleanup of unsightly areas will be necessary to produce irregular foliage lines along the right of way. The purpose of this project is to soften the unnatural edge of the woods left by site-clearing operations and to effect bays and open areas in the woods to afford interest and relieve monotony.

Trimming of all trees to a height

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New Jersey roadside maintenance: Left, protection of valuable specimen shade trees by welling and root aeration, required because of grade change by filling; right, selective thinning and cutting for road safety includes removal of live and dead trees, both standing and fallen, and the creation of bays and open spaces along the wood's edge to create interest and relieve monotony.



# Landscape Seminar Held in Louisiana

By George Fisher



Explaining the design of a residential property at the recent Louisiana landscape seminar are Prof. Stanley White, left, and Prof. Charles Harris, both with the landscape architecture department of the University of Illinois, Urbana.

About 75 landscape architects, landscape nurserymen, city planners, garden club officers and students from five states attended the 4-day session of the ninth annual landscape seminar, held in Pleasant hall on the campus of Louisiana State University, Baton Rouge, June 21 to 24.

The seminar was under the direction of Dr. Robert S. Reich, who is in charge of the landscape curriculum at the university, and the program was cosponsored by the school and the Louisiana Landscape Association.

The principal speaker and moderator for the study sessions was Prof. Stanley White, professor of landscape architecture at the University of Illinois, Urbana. Assisting Professor White was Prof. Charles Harris, also of the University of Illinois. Professor White also appeared Sunday afternoon at a public lecture as a part of a series of speakers in the annual summer festival of the arts.

## Landscape Tour

The first day of the seminar was devoted to a landscape tour, to see several of the old southern colonial plantations and gardens near St. Francisville, about 40 miles up the Mississippi river above Baton Rouge. Here the visitors were enabled to study 18th and 19th century architecture of different influences and to observe the type of garden of that era, as well as to see renovations and revisions of these gardens. Several of the old homes and public buildings were built in the early 1800's, and several plantings made at mid-century, containing azaleas, camellias and *Magnolia fuscata*, were observed in an excellent state of vigor and beauty.

Notable among the colonial homes

and gardens visited was Afton Villa, where plantings were studied in relation to the life and customs of the old plantation owner. The grounds of Afton Villa were landscaped by an unknown French landscape architect about 1849. The design combines the romantic style with the formalism of the French gardens of that period. The entrance is down a long avenue of live oaks and azaleas, which leads to a large open area that bursts into view. Part of the formal gardens on the terraces on the south side of the house have been carefully restored after considerable research. On these terraces one will also see some of the original plantings made by the designer.

## Trends

Saturday's program opened with an address by Professor White on "Style and Evolution with Attention to Contemporary Attitudes and Significance." Professor White felt that designers are going too fast in trying to break away from the old in a zest to have something new and questioned what would come after the modern style. We are living in the age of the bulldozer, he said. This and other earth-moving machines have a value in a mechanized age, but they can be destructive of the terrain, a culture and a living style.

Dean J. Norman Epperson, of the L. S. U. college of agriculture, set the theme of the seminar in a short talk, challenging all workers in the landscaping fields to plan to meet the great changes that lie ahead. With the increased leisure time forecast for the coming generations will come problems for the landscape architect in solving ways of using this time for outdoor recreation and appreciation of the natural heritage of

beauty. He cautioned against suburban slum areas, stating that in the future probably five sixths of the population will be living in rural areas. The masses of people will have a short work week in comparison to the present one, and many more people will take longer and more frequent vacations. There will be a need of landscape workers in planning and maintaining a great system of recreational parks and playgrounds.

Dr. C. A. McMahon, visiting professor in the sociology department and director of air force manpower research at the air force base at San Antonio, Tex., then spoke of "Research in Landscape Architecture." Dr. McMahon felt that there is little current research in the arts, including landscape design.

The concluding speaker on the morning program was James Bryan, assistant flower director in the department of fine arts, L. S. U., who spoke on "General Investigation of the Creative Arts from a Contemporary Viewpoint." Mr. Bryan stated that landscape architects are creative artists who strive to create, not imitate, in their work. He warned against so-called packaged landscape jobs, stating that they have no practical value and destroy initiative.

## Illustrated Talk

The Saturday afternoon session featured an illustrated talk by Professor Reich, showing examples of contemporary styles of landscaping as practiced on the west coast. Professor White then presented the subject, "Fixing Up Old Towns and Old Places."

This study session was followed by a meeting of the Louisiana Land-

[Continued on page 69]



# Varied Talks Highlight Missouri Short Course

By D. F. Millikan

Robert Eggers, Arrowhead Nurseries, Chesterfield, Mo., was elected president of the Missouri State Nurserymen's Association at the group's annual business meeting held during the short course at the University of Missouri, Columbia, June 19 and 20. Ellery Bennett, Chesmore Seed & Nursery Co., St. Joseph, Mo., was named vice-president, and Hal Mosher, of the department of horticulture of the university, was re-elected secretary-treasurer.

Preceding the short course, June 18, seven members of the association's university and executive committees met with Dr. P. A. Schroeder, head of the department of horticulture, to discuss problems facing the industry, research and relations between the department and the industry.

Wednesday, June 19, the program for the short course was opened in the Memorial Union building with an invocation by Edwin Stark, president of Stark Bros. Nurseries & Orchards Co., Louisiana, Mo. A welcome from S. B. Shirkey, associate dean of agriculture, followed. Dean Shirkey emphasized the university's cognizance of the industry's importance to the state and pointed out the ever-growing interest in and need for landscaping and home beautification.

## Mineral Nutrition

A panel discussion on the "Mineral and Trace Element Nutrition of Nursery Crops" started off with a short talk by Dr. A. D. Hibbard, professor of horticulture. Dr. Hibbard has directed a program in mineral nutrition of horticultural crops for many years and through leaf analysis techniques has obtained a knowledge of the general fertility problems of the state. He pointed out that often other troubles are attributed to trace element deficiencies and advised caution, for the range between toxicity and deficiency is often narrow. Furthermore, the need for trace elements varies according to the crop. This variance in need can be shown in the boron requirements of apple and strawberry, for the minimal requirement of the former is on the verge of toxicity for the latter. He remarked that of the six minerals generally considered as

essential, only boron is frequently deficient in Missouri soils, although copper appears to be on the deficient side in some areas. It would be unwise to spend money for trace element mixtures if the need does not exist.

The talk was followed by questions from the floor, directed not only to Dr. Hibbard, but also to Dr. J. Levitt, plant physiologist and professor of botany, and Dr. C. E. Marshall, professor of soils. After a lively discussion on all phases of mineral nutrition, the panel was continued informally over coffee and doughnuts.

## Dwarf Tree Production

At 11 o'clock, Dr. Karl Sax, of the Arnold Arboretum, Jamaica Plain, Mass., gave an interesting talk on the production of dwarf trees. While the remarks concerned fruit trees, mostly, the principles given were applicable to the entire field of ornamentals. There are many methods, none of them really new, available for restricting growth, but generally speaking the practice involves any means that will slow down growth, such as root pruning or growing trees on stocks with a naturally restricted growth system. Although the practical application of dwarfing has been used most extensively in the production of tree fruits, Dr. Sax showed a slide depicting a

Crimson King maple, budded to silver maple, that was only five feet tall at 6 years of age. Red maple is similarly dwarfed when worked on silver maple and will color earlier in the fall. Many plants, such as cotoneaster, which is difficult to transplant on its own roots, are easily transplanted when worked on other roots. Excellent Kodachrome slides accompanied the talk. At noon the meeting adjourned until after lunch.

At 1:30 p. m. the meeting was resumed with a short talk by J. S. Williamson, commissioner of agriculture of the Missouri state department of agriculture. Mr. Williamson stressed the contribution of good landscaping to better living and recognized the Missouri nursery business as first in the production of deciduous trees and sixth in the production of nut trees. He added that not only should the nurserymen recognize their responsibilities in landscaping new homes, parks and roadsides, but give consideration to the needs for replacement plantings. This endeavor requires alertness and salesmanship. The speaker also hoped that the nurserymen would continue to recognize their responsibility for providing quality merchandise.

Julius Anderson, state entomologist, reported that the increase in dealers representing out-of-state nurseries is more rapid than the increase in Missouri nurseries, which means that more nursery stock is moving in from other areas, principally from the south. The incoming plants are not always so well adapted to Missouri conditions as the locally grown stock, said Mr. Anderson, and the influx of the stock increases the work load of his department in maintaining the proper disease and insect inspections. He mentioned that one new pest, the soybean cyst nematode, is not yet present in the state, but can be imported in soil or on roots of plants grown in infected soil. He also mentioned fire ants as another threat, reporting that the insects seem to be on the move from their original infestation center in Texas.

## Less Common Nematodes

Vernon Perry, nematologist of the United States Department of Agriculture, used colored slides to illustrate his discussion of nematode control. Mr. Perry emphasized that the damage caused by nematodes other than the easily recognized root-knot species is greater than many growers realize. This is especially true in the case of the meadow lesion nematode, which attacks strawberries and ornamentals. Another group, known as



New officers of the Missouri State Nurserymen's Association: Left, Robert Eggers, president, and right, Ellery Bennett, vice-president.

ecto feeders, has caused so much damage to the boxwood on the eastern seaboard that most of the fine, pre-Revolution specimens are now destroyed. Still another group, spiral nematodes, must be recognized as a potential threat.

He stressed, however, that the tools for control are available and that in most cases crop rotations will minimize losses. The use of chemical fumigation should permit the production of profitable crops wherever the nematode population reaches epidemic proportions.

Dr. Karl Sax concluded the afternoon session with an illustrated discussion of the Arnold Arboretum's collection of ornamental species, including three new items—a forsythia, a flowering crab apple and a flowering cherry—introduced by the arboretum. *Cercidiphyllum*, *Ilex crenata convexa* and *Magnolia stellata* merit more attention than they have received in the past, according to Dr. Sax. The *cercidiphyllum*, or katsura tree, is completely disease and insect-resistant and resembles the magnolias. Still another subject, *albizzia*, seems promising because of its late summer-flowering habit.

The evening of June 19 was spent at the Wilkerson Nursery, where delicious barbecued spareribs and fried chicken were served.

#### Cites Complacency Danger

The first speaker Thursday morning was Joseph Cahill, of the Pottsville Woodbury advertising firm, Kansas City, Mo. Mr. Cahill considers that a company's advertising falls into three different stages—pioneering or starting stage, competitive stage and retentive stage. These stages are determined not by time but by the public's attitude toward the firm, its products and its services. In the speaker's opinion, the greatest danger to the continued success of a company lies in the possibility of its developing a complacent attitude during the retentive stage, at which point customers can easily be lost to a new competitor.

Mr. Cahill suggested that the simplest structure for advertising copy consists of two elements, (1) the idea of interest to prospects and (2) a suggestion of what to do. If the thought can be presented in one line there is no need for more. If more than one line is needed, amplification, clarification and explanation techniques must be used. After discussing the means of disseminating advertising material, Mr. Cahill concluded his talk with a short film and then answered questions from the floor.

Paul Terry, of the Kroger Co., at

St. Louis, speaking on merchandising, told of the Holland bulb salesman who was responsible for the growth of the Kroger bulb business from about \$8,000 annually to over \$70,000 during the past season. Mr. Terry went on to point out that this is a self-service era and that this fact must be recognized and the trend developed to merchants' advantage. He recognized the trend toward suburban living and the emphasis on family life. These facts amplify the growing appreciation and need for nursery products. Mr. Terry remarked that the nurseryman must cultivate this growing market not only by supplying plant materials but also by maintaining quality in his merchandise and honesty and integrity in his operations. The meeting adjourned, after a lively discus-



Speakers at the Missouri short course: Left, Paul Terry, and right, Dr. Karl Sax.

sion period, to the dining room for the annual luncheon.

#### Business Meeting

Thursday afternoon President Orville Moffet called the business meeting to order and asked the secretary to read the minutes of the past meeting. These were accepted. The treasurer's report was also read and accepted. Dale Wild, Sarcocie Nurseries, Wild Bros. Nursery Co., Sarcocie, reporting on the board of governors' meeting at Los Angeles last summer, stated that nurserymen were entitled to a return on their federal gasoline tax. Initially, this return applied to the 6-month period from July 1, 1956, to January 1, 1957, but it now applies to the entire calendar year. Forms may be obtained from the county agent's office. He also mentioned a discussion of the federal road-building program,

which, it is felt, can be integrated into the association's "Plant Missouri" program through highway beautification. He emphasized that the pressure exerted will largely determine the amount of federal assistance that the state association can obtain for its program. Another thing discussed at this meeting was the federal trade commission. The report of this discussion is available through the M. S. N. A.

President Orville Moffet, Moffet Nurseries, St. Joseph, next called upon Joseph Weston, Neosho Nurseries, Neosho, for a report from the legislative committee. Mr. Weston commented on the progress that has been made and stated that the committee had been invited by Commissioner Williamson to meet and confer with him.

#### Planting Program Delayed

The "Plant Missouri" committee then presented its report. This program has been postponed because the available funds are still inadequate. The committee feels that, in order to initiate the program, it will be necessary to have at least \$5,000 available in the treasury.

The president then asked for the university committee report. Royer Wilkerson, Wilkerson Nursery, Columbia, responded with a discussion of the June 18 meeting with Dr. Schroeder. Hugh Steavenson, Forrest Keeling Nursery, Columbia, asked the nurserymen to support the university in every manner possible, for the work needing attention requires additional financial aid. President Moffet mentioned that there will be another meeting with the dean in the near future.

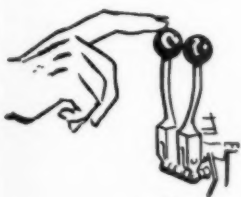
The membership committee presented two names for membership. Joseph Houlihan, Jr., Houlihan Nursery Co., Creve Coeur, supported William Ott, and Ben Asjes, Raytown Nurseries, Hickman Mills, supported the Burger Nursery. Both applicants were voted into membership by acclamation.

The next order of business concerned representation at the A. A. N. this year. President Moffet stated that, due to unavoidable difficulties, he could not attend the meeting and requested that the alternate, Joseph Weston, replace him. Representation for the 1958 meeting was chosen as follows: Representative—Royer Wilkerson; Joseph Houlihan, Jr., and Paul Stark, Jr., Louisiana; alternates, Hugh Steavenson, Joseph Weston and Dale Wild.

President Moffet called for the re-  
[Concluded on page 44]

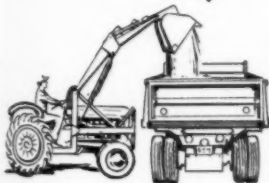


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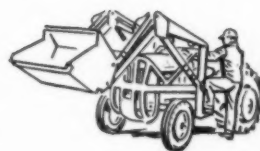


### Look at the Lift

10' 10" lift to bucket bottom; 8' 6" to bucket lip, dumped; 26" reach dumped at full lift. Generous clearance over average 7' 6" truck side. Fill entire truck from one side without "flipping".

### Try the Steering

Compact, close-coupled, maneuvers well in areas other rigs can't even enter! With power steering, a factory option, effortless one-hand steering even on roughest ground leaves other hand free for loader controls.



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993 lbs., average bucket load—a yard in the truck every 3 cycles. Ford's 2500 lbs. breakaway—more than any other 1000 lb. rated loader—gives faster, easier loading of packed or frozen material.



The Ford Tractor-Loader out-performs any rig in its capacity class and many "bigger" tractor-loaders. Before you buy, *compare!* Tractor and Implement Division, Ford Motor Company, Birmingham, Michigan.



You see more **FORDS** because they save more money



# QUALITY EVERGREENS

## BROAD-LEAVED EVERGREENS

*Abelia grandiflora*  
*Barberry, julianae*  
*Buxus sempervirens*  
*Cotoneaster decora lactea*  
*Cotoneaster horizontalis*  
 Laurel Cherry  
*Laurocerasus officinalis*  
 (English Laurel)  
*Elaeagnus fruitlandi*  
*Elaeagnus simoni*  
*Euonymus, small-leaved*  
*Euonymus coloratus*  
*Euonymus patens*  
*Ilex crenata Biloxi*  
*Ilex crenata convexa*  
*Ilex rotundifolia*  
*Ilex cornuta burfordi*  
*Ilex Foster's Hybrid No. 2*  
*Ilex cornuta femina*  
*Ilex glabra*  
*Ilex opaca, seedlings*  
*Ilex opaca Arden*  
*Ilex opaca Croonenburg*  
*Ilex opaca East Palatka*  
*Ilex opaca howardi*  
*Ilex opaca Hume No. 2*  
*Ilex vomitoria*  
*Ilex vomitoria, dwarf*  
*Jasminum floridum*  
*Ligustrum lucidum nana*  
*Ligustrum Suwannee River*  
*Loropetalum chinense*  
*Magnolia glauca*  
*Magnolia grandiflora*  
*Nandina domestica*  
*Photinia serrulata*  
*Viburnum burkwoodi*

## DECIDUOUS TREES

*Cornus florida*  
*Cornus florida rubra*  
*Euonymus alatus compactus*  
*Magnolia nigra*  
*Magnolia rustica rubra*  
*Magnolia soulangeana*

## CONIFERS

*Arborvitae, orientalis Baker*  
*Arborvitae, orientalis Blue Cone*  
*Arborvitae, orientalis Bonita*  
*Arborvitae, orientalis excelsa*  
*Arborvitae, orientalis newarki*  
*Arborvitae, fruitlandi*  
*Arborvitae, American globosa*  
*Arborvitae, American globosa compacta erecta*  
*Arborvitae, Pyramidal American*  
*Arborvitae, Dark Green American*  
*Cypress, Blue Lawson*  
*Juniper, Andorra*  
*Juniper, chinensis procumbens*  
*Juniper, excelsa stricta*  
*Juniper, communis fastigiata*  
*Juniper, hetzi glauca*  
*Juniper, pfitzeriana*  
*Juniper, pfitzeriana compacta*  
*Juniper, pfitzeriana nana*  
*Juniper, virginiana repandens*  
*Juniper, sargentii*  
*Juniper, sabina*  
*Juniper, chinensis Sylvestris*  
*Juniper, sabina vonehron*  
*Juniper, sabina vonehron, sheared globes*  
*Juniper, sabina vonehron, sheared pyramids*  
*Juniper, virginialis*  
*Juniper, virginiana burki*  
*Juniper, virginiana canaerti*  
*Juniper, virginiana Dundee*  
*Pine, Austrian*

Price and Quality Guaranteed to Please.

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## CARTWRIGHT NURSERIES

COLLIERVILLE, TENN.

ULysse 3-2352

## COMING EVENTS

### MEETING CALENDAR

August 3 to 6 — Mississippi Florists' and Nurserymen's Association, annual convention, Buena Vista hotel, Biloxi, Miss.

August 6 and 7 — Michigan Association of Nurserymen and Michigan Landscape Conference, joint summer meeting, Kellogg Center, Michigan State University, East Lansing.

August 7 — Connecticut Nurserymen's Association, summer meeting, Lake Compounce, Conn.

August 7 — Maryland Nurserymen's Association, summer meeting and nursery tour, beginning at the establishment of J. H. Burton & Sons, Hyattsville, Md.

August 7 — Massachusetts Nurserymen's Association, Inc., summer meeting, Bartlett Gardens, Hamilton, Mass.

August 7 to 9 — West Virginia Nurserymen's Association, summer meeting, West Virginia hotel, Bluefield, W. Va.

August 8 and 9 — Indiana Association of Nurserymen, summer meeting and nursery tours: R. Brumond Smith Nursery, Muncie, Ind.; Ernst Nurseries, Inc., Muncie, and Garr Nurseries, Chesterfield, Ind.

August 11 to 13 — Southern Nurserymen's Association and South Carolina Nurserymen's Association, joint annual convention, Fort Sumter hotel, Charleston, S. C.

August 11 to 13 — National Mail Order Nurserymen's Association, annual meeting, Hotel La Salle, Chicago, Ill.

August 13 and 14 — New York State Nurserymen's Association, summer session, in the dining hall of the Long Island Agricultural and Technical Institute, Farmingdale, L. I., N. Y.

August 14 — New Jersey Association of Nurserymen, summer meeting, F & F Nurseries, Holmdel, N. J.

August 14 — Pennsylvania Nurserymen's Association, summer meeting, Fairview Evergreen Nurseries, Fairview, Pa.

August 15 — Nebraska Association of Nurserymen, summer meeting, Nebraska Nurseries, Lincoln, Neb.

August 21 — New England Nurserymen's Association, summer meeting, Boulevard Nurseries, Newport, R. I.

August 21 to 23 — Florida Nurserymen and Growers Association, annual short course, University of Florida, Gainesville.

August 21 to 23 — Ohio Nurserymen's Association, summer meeting, St. Francis hotel, Canton, O.

August 22 and 23 — Iowa Nurserymen's Association, summer meeting, Sherman Nursery Co., Charles City, Ia.

August 22 to 24 — Washington State Nurserymen's Association and British Columbia Nurserymen's Association, joint annual convention, Vancouver, B. C., Canada.

August 23 and 24 — Iowa Nurserymen's Association, summer meeting, Sherman Nursery Co., Charles City, Ia.

August 25 to 28 — Texas Association  
[Continued on page 22]



# Keeping its promise...



H. T. ROSE  
**PINK FAVORITE**

Pat. No. 1523

Long, pointed buds of deep rich pink. New type glossy, disease-resistant foliage.



Dr. J. M. Burkhardt of Olympia, Washington, with the Pink Favorite rose that won him the Grand Sweepstakes at the Portland Rose Show in June, 1957. Pink Favorite was hybridized by Gordon Von Abrams of Peterson & Dering.

"Most promising pink rose in many years," a famous rose grower said last year of Pink Favorite. And this year it seems to be keeping its promise . . . adding the Grand Sweepstakes, the "best three" and "best five" awards of the Portland Rose Show to the Gold Medal and other honors it has already won.

The demand for Pink Favorite continues to surprise us. Last year we ran out early, but this season we hope to supply everyone. Orders placed now will be certain of delivery.

**EASTERN NURSEYMEN:** For listings and quotations, contact: Frank C. Donovan, 130 East 233rd Street, Euclid, O.

## OTHER P&D INTRODUCTIONS

**ENCORE.** (Pat. Applied For) New floribunda of silver-pink. P&D disease-resistant foliage.

**BURNABY.** (Pat. No. 1314) Hybrid tea of rich empire yellow. Gold Medal Winner, United States and England.

**THE DUKE.** (Pat. No. 1522) Red-gold bi-color hybrid tea. Highly rated at 9.0.

**AMY.** (Pat. No. 1455) Hardy floribunda of rich satin-pink.

**FORT VANCOUVER.** (Pat. No. 994) Fragrant hybrid tea of light clear pink.



**Oregon's Best Source of Good Roses**

Available from P&D or the following nurseries who grow all or part of these varieties:

ARP NURSERY • BOSLEY NURSERY • C. R. BURR & CO., INC. • CONSOLIDATED NURSERIES, INC. • IJLGNFRITZ NURSERIES CO. GERALD K. KLYN, INC. • MAYWOOD ROSE NURSERY • MENTOR ROSE GROWERS, INC. • MOUNT ARBOR NURSERIES • PARAMOUNT NURSERIES ROSEWAY NURSERIES • SHENANDOAH NURSERIES • VAN HEVELINGEN NURSERY • WAYSIDE GARDENS • MELVIN E. WYANT

# CHOICE LINERS — FALLS

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
5000 <i>Abies concolor</i> , 3-yr., T. ....	\$.18	\$.15	1000 <i>Forsythia intermedia</i> , 2-yr., C., 6 to 9 ins. ....	\$.08	\$.07
200 <i>Acer dissectum atropurpureum</i> , 1-yr., grafts	.90	..	2000 <i>Forsythia Lynwood Gold</i> , 2 1/4-in. pots ....	.22 1/2	..
2000 <i>Acer ginnala</i> , 1-yr., S. ....	.15	.12 1/2	2000 <i>Forsythia Spring Glory</i> , 2 1/4-in. pots ....	.20	..
500 <i>Acer palmatum atropurpureum</i> , 1-yr., grafts	.90	..	700 <i>Forsythia suspensa</i> , 2-yr., C., 6 to 9 ins. ....	.12	..
200 3-yr., T., seed-grown .....	.75	..	1000 <i>Ginkgo biloba</i> , 1-yr., S. ....	.15	..
5000 1-yr., S. ....	.30	.25	600 <i>Hydrangea A. G.</i> , 2-yr., C., 6 to 9 ins. ....	.15	..
1000 S., 2-yr., T. ....	.50	.45	1000 <i>Ilex convexa compacta</i> , 2 1/4-in. pots ....	.18	..
2000 <i>Albizia kalkora</i> , 1-yr., S. ....	.15	.12 1/2	500 <i>Ilex crenata</i> , 2-yr., T. ....	.25	..
1000 <i>Althaea coelestis</i> , 1-yr., grafts ....	.35	.30	500 <i>Ilex crenata convexa</i> , 2-yr., T. ....	.25	..
500 <i>Aralia pentaphylla</i> , 2-yr., C., 6 to 9 ins. ....	.12	..	500 <i>Ilex crenata latifolia</i> , 1-yr., T. ....	.20	..
1250 <i>Arborvitae</i> , Pyramid, 2-yr., T., 6 to 9 ins. ....	.30	.25	1000 <i>Ilex crenata microphylla</i> , 2 1/4-in. pots ....	.15	..
5000 <i>Aronia arbutifolia</i> , 1-yr., S. ....	.08	.07	500 <i>Ilex crenata rotundifolia</i> , 2-yr., T. ....	.25	..
500 <i>Azalea arnoldiana</i> , 2-yr., T. ....	.35	..	500 <i>Ilex glabra</i> , 2-yr., T. ....	.25	..
500 <i>Azalea hino-crimson</i> , 2-yr., T. ....	.35	..	500 <i>Ilex opaca</i> , 2-yr., T. ....	.25	..
500 <i>Azalea hinodogiri</i> , 2-yr., T. ....	.35	..	650 <i>Juniperus Andorra</i> , 2-yr., T., 6 to 9 ins. ....	.30	..
500 <i>Azalea mollis</i> , 2-yr., T. ....	.50	..	200 <i>Juniperus excelsa stricta</i> , 2-yr., T. ....	.35	..
3000 <i>Barberry</i> , Red, 2-yr., S., 6 to 9 ins. ....	.06	.05	1000 <i>Juniperus glauca hetzi</i> , 2-yr., T. ....	.30	..
2500 <i>Barberry</i> , Red, 2-yr., S., 9 to 12 ins. ....	.07	.06	300 <i>Juniperus hibernica</i> , 2-yr., T. ....	.28	..
1800 <i>Benzoin aestivale</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	500 <i>Juniperus sabina</i> , 2-yr., T., 6 to 9 ins. ....	.30	..
5000 <i>Berberis Crimson Pigmy</i> , 2 1/4-in. pots ....	.25	.22 1/2	2000 <i>Laburnum vulgare</i> , 1-yr., S. ....	.15	..
3000 <i>Berberis thunbergi</i> , 2-yr., S., 9 to 12 ins. ....	.07	.06	2000 <i>Leucothoe catesbaei</i> , 2 1/4-in. pots ....	.20	..
5000 <i>Berberis thunbergi atropurpurea</i> , 1-yr., S. ....	.07	.05	2000 <i>Ligustrum ovalifolium</i> , 1-yr., liners ....	.05	..
5000 2-yr., S., 6 to 9 ins. ....	.07	.05	5000 <i>Ligustrum Vicary (tru)</i> , 2-yr., T. ....	.15	..
5000 2-yr., S., 9 to 12 ins. ....	.08	.06	4000 <i>Liquidambar styraciflua</i> , 1-yr., S. ....	.12	..
5000 2-yr., S., 12 to 18 ins. ....	.11	.09	8000 <i>Lonicera korolkowi</i> , 2-yr., C., 6 to 9 ins. ....	.12	..
3000 <i>Calycanthus floridus</i> , 1-yr., S. ....	.12 1/2	.10	1000 <i>Magnolia grandiflora</i> , 2-yr. ....	.18	..
200 <i>Caragana arborescens</i> , 2-yr., S., 6 to 9 ins. ....	.12	..	2000 <i>Mahonia</i> , 1-yr., T., 6 to 9 ins. ....	.25	..
500 <i>Carpinus caroliniana</i> , 1-yr., S. ....	.15	..	300 <i>Malus Almey</i> , 1-yr., whips, 2 to 3 ft. ....	.40	..
300 <i>Celastrus scandens</i> , 1-yr., S., 6 to 9 ins. ....	.10	.09	200 <i>Malus atrosanguinea</i> , 1-yr., whips, 2 to 3 ft. ....	.40	..
800 <i>Celtis laevigata</i> , 1-yr., S. ....	.10	..	300 <i>Malus eleyi</i> , 1-yr., whips, 2 to 3 ft. ....	.40	..
1000 <i>Celtis occidentalis</i> , 1-yr., S. ....	.10	..	300 <i>Malus Hopsa</i> , 1-yr., whips, 2 to 3 ft. ....	.40	..
4000 <i>Cercis chinensis</i> , 1-yr., S. ....	.10	.09	200 <i>Malus Van Eseltine</i> , 1-yr., whips, 2 to 3 ft. ....	.40	..
150 <i>Chamaecyparis filifera</i> , 2-yr., T. ....	.30	..	1000 <i>Meratia praecox</i> , 2-yr. ....	.18	..
1500 <i>Chamaecyparis plumosa</i> , 2-yr., T. ....	.30	.25	2000 <i>Myrica cerifera</i> , 1-yr., S. ....	.07	..
1450 <i>Chamaecyparis plumosa aurea</i> , 2-yr., T. ....	.30	.25	3000 <i>Myrica pensylvanica</i> , 1-yr., S. ....	.08 1/2	..
1000 <i>Clematis paniculata</i> , 2-yr., T. ....	.30	.25	1500 <i>Pachysandra</i> , 2-yr., C. ....	.15	..
3000 <i>Clethra alnifolia rosea</i> , 2 1/4-in. pots ....	.25	.22 1/2	500 <i>Philadelphus Albatre</i> , 2-yr., C., 6 to 9 ins. ....	.15	..
2000 <i>Cornus alternifolia</i> , 1-yr., S. ....	.15	..	300 <i>Philadelphus Argentine</i> , 2-yr., C., 6 to 9 ins. ....	.15	..
5000 <i>Cornus florida</i> , selected understocks, 1-yr. ....	.09	.07 1/2	8000 <i>Philadelphus coronarius aureus</i> , 2-yr., C., 6 to 9 ins. ....	.30	..
4000 budding size, 1-yr., S. ....	.08	.06	1200 <i>Philadelphus lemoinei</i> , 2-yr., C., 6 to 9 ins. ....	.12	..
8000 small, 1-yr., S. ....	.07	.05	400 <i>Photinia villosa</i> , 2-yr., T., 6 to 9 ins. ....	.12	..
700 1-yr., S., 6 to 9 ins. ....	.07	.06	950 <i>Physocarpus monogynus</i> , 2-yr., C., 6 to 9 ins. ....	.15	..
1000 whips, 2 to 3 ft. ....	.35	..	1500 <i>Picea canadensis</i> , 3-yr., T., 4 to 8 ins. ....	.10	..
600 whips, 3 to 4 ft. ....	.50	..	8000 <i>Picea excelsa</i> , 2-yr., S., 2 to 5 ins. ....	.04	..
3000 <i>Cornus mas</i> , 1-yr., S. ....	.18	.16	5000 3-yr., S., 3 to 6 ins. ....	.05	..
200 <i>Cotoneaster dielsiana</i> , 1-yr., S., 6 to 9 ins. ....	.12	..	5000 4-yr., T., 6 to 12 ins. ....	.12	..
500 <i>Cotoneaster divaricata</i> , 1-yr., S. ....	.10	..	500 <i>Picea moerheimi</i> , 1-yr., grafts ....	1.25	..
500 <i>Cotoneaster horizontalis</i> , 1-yr., S. ....	.12	..	10,000 <i>Picea pungens</i> , 2-yr., S., 2 to 4 ins. ....	.06	..
8000 <i>Crataegus cordata</i> , 1-yr., S. ....	.08	.07 1/2	6000 <i>Picea pungens</i> , 3-yr., T., 3 to 6 ins. ....	.15	..
5000 <i>Crataegus crusgalli</i> , 1-yr., S. ....	.08	.07 1/2	500 <i>Pinus mughus</i> , 2-yr., S., 1 1/2 to 3 ins. ....	.07	..
2000 <i>Crataegus oxyacantha</i> , 1-yr., S. ....	.08	.07 1/2	500 <i>Pinus mughus</i> , 3-yr., T., 2 to 4 ins. ....	.15	..
100 <i>Cryptomeria lobbi compacta</i> , 2-yr. grafts. ....	1.00	..	1000 <i>Pinus nigra</i> , 2-yr., S., 2 to 4 ins. ....	.06	..
400 <i>Cytisus battandieri</i> , 1-yr. ....	.50	..	1500 <i>Pinus nigra (poiretiana)</i> , 3-yr., S., 5 to 10 ins. ....	.06	..
2000 <i>Deutzia gracilis</i> , 2-yr., C., 6 to 9 ins. ....	.12	.10	3000 <i>Pinus nigra (poiretiana)</i> , 3-yr., T., 3 to 5 ins. ....	.09	..
1000 <i>Deutzia lemoinei</i> , 2-yr., C., 6 to 9 ins. ....	.12	.10	1500 <i>Pinus strobus</i> , 3-yr., S., 4 to 8 ins. ....	.06	..
200 <i>Deutzia Pride of Rochester</i> , 2-yr., C., 6 to 9 ins. ....	.10	..	7000 3-yr., T., 3 to 6 ins. ....	.10	..
2000 <i>Elaeagnus angustifolia</i> , 1-yr. ....	.10	.09	3000 4-yr., T., 8 to 16 ins. ....	.15	..
300 <i>Elaeagnus angustifolia</i> , 1-yr., S., 6 to 9 ins. ....	.08	..	10,000 <i>Pinus thunbergi</i> , 2-yr., S., 3 to 5 ins. ....	.07	..
300 <i>Elaeagnus umbellata</i> , 1-yr., S., 6 to 9 ins. ....	.08	..	1500 <i>Pinus thunbergi</i> , 3-yr., T., 4 to 8 ins. ....	.12	..
1000 <i>Elaeagnus umbellata</i> , 1-yr. ....	.10	.09	4000 <i>Privet</i> , Golden Vicary, 2-yr., C., 6 to 9 ins. ....	.12	..
1000 <i>Enkianthus campanulatus</i> , 2 1/4-in. pots ....	.20	.18	500 <i>Prunus Amanogawa</i> , 1-yr., whips, 2 to 3 ft. ....	.75	..
1000 <i>Euonymus alatus</i> , seed-grown, 2-yr., T. ....	.18	.15	500 <i>Prunus Kwanzan</i> , 1-yr., whips, 2 to 3 ft. ....	.75	..
400 <i>Euonymus alatus compactus</i> , 2-yr., C., 6 to 9 ins. ....	.30	..	500 <i>Prunus Kwanzan</i> , 1-yr., whips, 3 to 4 ft. ....	1.00	..
2000 <i>Euonymus radicans vegetus</i> , 2-yr., T., 6 to 10 ins. ....	.30	.25	2000 <i>Prunus tomentosum</i> , 1-yr., S. ....	.15	..
1000 <i>Exochorda grandiflora</i> , 1-yr., S. ....	.10	.09	9000 <i>Pseudotsuga douglasii</i> , 2-yr., S., 3 to 5 ins. ....	.07	..
3000 <i>Forsythia Beatrix Farrand</i> , 2 1/4-in. pots ....	.25	.22 1/2	8000 <i>Pseudotsuga douglasii</i> , 3-yr., T., 3 to 7 ins. ....	.11	..
800 <i>Forsythia fortunei</i> , 2-yr., C., 6 to 9 ins. ....	.10	.07 1/2	1000 <i>Pseudotsuga douglasii glauca</i> , 2-yr., T. ....	.15	..

# 1957, and SPRING, 1958

Each	Each	Each	Each
100 rate	1000 rate	100 rate	1000 rate
300 Rhamnus cathartica, 1-yr., S., 6 to 9 ins. . . . .	\$0.10	\$0.09	
300 Rhamnus frangula, 1-yr., S. . . . .	.10	.09	
300 Rhododendron, hybrid seedlings, 2-yr., T. . . . .	.25		
300 Rhodotypos kerrioides, 1-yr., S. . . . .	.12	.10	
300 Rhus cotinus, 1-yr., S. . . . .	.10	.09	
300 Ribes alpinum, 2-yr., C., 6 to 9 ins. . . . .	.15	.12	
300 Rosa setigera, 1-yr., S. . . . .	.08	.07 1/2	
300 Sophora japonica, 1-yr., S. . . . .	.15	.12 1/2	
300 Sorbus aucuparia, 1-yr., S. . . . .	.12		
300 whips, 3 to 4 ft. . . . .	.50		
300 whips, 4 to 5 ft. . . . .	.75		
300 Spiraea Anthony Waterer, 2-yr., C., 6 to 9 ins. . . . .	.15	.10	
300 Spiraea froebeli, 2-yr., C., 6 to 9 ins. . . . .	.12	.10	
300 Stephanandra incisa crispa, 2 1/4-in. pots. . . . .	.28	.25	
300 Sytrax japonica, 1-yr. . . . .	.15	.12 1/2	
300 Symphoricarpos chenaulti, 2-yr., C., 6 to 9 ins. . . . .	.15	.10	
300 Syringa vulgaris, 1-yr., S. . . . .	.08	.07 1/2	
300 Taxus cuspidata, 2-yr., T. . . . .	.30	.27 1/2	
300 3-yr., T. . . . .	.37 1/2	.35	
300 4-yr., TT. . . . .	.55	.50	
300 Taxus cuspidata, Barnes strain, 2-yr., T. . . . .	.35	.30	
300 Taxus cuspidata, Cheshire No. 1, 2-yr., T. . . . .	.35	.30	
300 Taxus cuspidata andersoni, 2-yr., T. . . . .	.30	.27 1/2	
300 Taxus cuspidata brevifolia, 2-yr., T. . . . .	.30	.27 1/2	
300 Taxus cuspidata browni, 2-yr., T. . . . .	.30	.27 1/2	
300 Taxus cuspidata capitata, S., 2-yr., T. . . . .	.30	.27 1/2	
300 S., 3-yr., T. . . . .	.40	.37 1/2	
300 Taxus cuspidata capitata, S., 4-yr., T., 6 to 10 ins. . . . .	.50	.45	
(No orders less than 250 this item)			
300 Taxus cuspidata columnaris, 2-yr., T. . . . .	.35	.30	
300 Taxus cuspidata nana, 2-yr., T. . . . .	.35	.30	
300 Taxus fastigiata, 2-yr., T. . . . .	.35	.30	
300 Taxus henryi, 2-yr., T. . . . .	.35	.32 1/2	
300 Taxus intermedia, spreading, 2-yr., T. . . . .	.35		
300 Taxus intermedia, upright, 2-yr., T. . . . .	.35	.30	
300 Taxus intermedia wellesleyana, 2-yr., T. . . . .	.35	.30	
300 Taxus media Halloran, 2-yr., T. . . . .	.30	.27 1/2	
300 5-yr., TT. . . . .	.65	.60	
300 Taxus media hatfieldi, 2-yr., T. . . . .	.30	.27 1/2	
300 4-yr., TT. . . . .	.55	.50	
300 Taxus media hicksi, 2-yr., T. . . . .	.30	.27 1/2	
300 4-yr., TT. . . . .	.55	.50	
300 Taxus media hunnewelliana, 4-yr., TT. . . . .	.55	.50	
300 Taxus Moon's columnaris, 5-yr., TT. . . . .	.75	.70	
300 Taxus Wyman's Hedgeform, 2-yr., T. . . . .	.35	.30	
300 Thuja globosa, 2-yr., 6 to 9 ins. . . . .	.30	.25	
300 Thuja occidentalis, 2-yr., T. . . . .	.15		
300 Thuja occidentalis, 3-yr., T., 3 to 7 ins. . . . .	.18	.15	
300 Thuja occidentalis boothii, 2-yr., T., 5 to 9 ins. . . . .	.30	.25	
300 Thuja occidentalis compacta, 2-yr., T., 5 to 10 ins. . . . .	.30	.25	
300 Thuja occidentalis elegantissima, 2-yr., T., 5 to 10 ins. . . . .	.30		
300 Thuja occidentalis nigra, 2-yr., T., 5 to 10 ins. . . . .	.30	.25	
1000 Thuja occidentalis pyramidalis, 2-yr., T., 5 to 10 ins. . . . .			\$0.30 \$0.25
250 Thuja occidentalis wareana plicata, 2-yr., T., 4 to 8 ins. . . . .			.30
250 Thuja occidentalis woodwardi, 2-yr., T., 4 to 8 ins. . . . .			.30
1000 Tsuga canadensis, 2-yr., T. . . . .			.30 .25
5000 Tsuga canadensis, 4-yr., T., 5 to 10 ins. . . . .			.35 .30
5000 Tsuga carolinianum, 2-yr., T. . . . .			.30 .25
1800 Tamarix Pink Cascade, 1-yr., C. . . . .			.30 .25
1200 Tamarix Summer Glow, 1-yr., C. . . . .			.18 .15
3000 Tilia americana, 1-yr. . . . .			.20
10,000 Tilia cordata, 1-yr. . . . .			.18 .15
2000 Tilia tomentosa, 1-yr. . . . .			.20
8000 Viburnum americanum, 1-yr., S. . . . .			.12 .10
3000 Viburnum carlesi, 1-yr., S. . . . .			.25 .22 1/2
1500 Viburnum carlesi, 2-yr., S. . . . .			.35 .30
10,000 Viburnum dentatum, 1-yr., S. . . . .			.09 .08
2000 Viburnum dilatatum, 1-yr., S. . . . .			.12 .10
1600 Viburnum lantana, 1-yr., S. . . . .			.12 .10
1000 Viburnum lentago, 1-yr., S. . . . .			.12 .10
650 Viburnum molle, 2-yr., T., 6 to 9 ins. . . . .			.12 .10
750 2-yr., S., 6 to 9 ins. . . . .			.08 .07
500 2-yr., S., 9 to 12 ins. . . . .			.10 .09
2500 Viburnum nudum, 1-yr., S. . . . .			.10 .09
500 Viburnum opulus nanum, 2-yr., C., 4 to 6 ins. . . . .			.20 .18
500 Viburnum opulus sterile, 2-yr., C., 6 to 9 ins. . . . .			.12 .10
3000 Viburnum prunifolium, 1-yr., S. . . . .			.18 .15
5000 Viburnum setigerum, 1-yr., S. . . . .			.18 .15
1000 Viburnum sieboldi, 1-yr., S. . . . .			.25 .20
1200 Viburnum tomentosum, 2-yr., C., 6 to 9 ins. . . . .			.20 .18
300 Viburnum tomentosum plicatum, 2-yr., C., 6 to 9 ins. . . . .			.25
1000 Viburnum wrightii, 1-yr., S. . . . .			.12 .10
800 Virginia Creeper, 2-yr., S., 6 to 9 ins. . . . .			.10
1000 Weigela Bristol Ruby, 1-yr., C. . . . .			.25 .22 1/2
2000 Weigela Eva Rathke, 2-yr., C., 6 to 9 ins. . . . .			.15 .12
300 Weigela hendersoni, 2-yr., C., 6 to 9 ins. . . . .			.15
1500 Weigela vaniceki, 1-yr., 12 to 18 ins. . . . .			.15
1000 Weigela vaniceki, 1-yr., 18 to 24 ins. . . . .			.25

## POT GRAFTS FOR MAY, 1958, SHIPMENT

Acer dissectum atropurpureum . . . . .	\$0.75
Acer palmatum atropurpureum . . . . .	.65
Cornus florida alba plena . . . . .	.50
Cornus florida rubra . . . . .	.50
Cornus florida rubra Prosser . . . . .	.65
Juniperus (in variety) . . . . .	.50
Picea moerheimi . . . . .	1.00
Thuja occidentalis pyramidalis . . . . .	.45
Thuja orientalis aurea nana . . . . .	.45
Viburnum burkwoodi . . . . .	.45
Viburnum carlesi . . . . .	.45
Viburnum chenaulti . . . . .	.50
Viburnum juddi . . . . .	.60

Note—This list of lining-out stock is accurate as of July 1, 1957. In many items the quantities are small and will be picked up quickly. Please send orders in soon to avoid disappointment. Thirty of a variety takes the hundred rate, excepting 1-yr. deciduous seedlings, which are picked in lots of 25. There will be an additional charge for less than thirty of a variety. This list cancels all previous lining-out lists. Usual prices. We are wholesale only.

## D. ROBINSON SALES AGENCY, WALLINGFORD, CONN.

"A friendly, efficient service"





Bundle of 15 Musser seedlings, at right, compared with bundle of 15 ordinary seedlings.

**MUSSER TREES GROW BEST—**  
because—GOOD HEREDITY and CAREFUL SELECTION of SEED—SCIENTIFIC CULTURE IN THE NURSERY assure HEAVY ROOTS and STURDY TOPS. Our TREMENDOUS VOLUME enables us to offer MORE FOR YOUR MONEY.

*As much difference in seed as in common and purebred cattle.*

## SEEDLINGS AND TRANSPLANTS AT LOW, QUANTITY PRICE

	Per 100	Per 1000		Per 100	Per 1000
<b>• SPECIAL STRAIN SCOTCH PINE</b>					
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.					
2-yr., S., 4 to 8 ins.	\$ 7.00	\$ 35.00			
4-yr., T., 6 to 12 ins.	20.00	100.00			
<b>• MUGHO PINE</b>					
4-yr., S., 6 to 10 ins.	10.00	50.00			
5-yr., T., 6 to 12 ins.	25.00	125.00			
<b>• AUSTRIAN PINE</b>					
3-yr., S., 8 to 12 ins.	8.00	40.00			
<b>• BLACK HILLS SPRUCE</b>					
3-yr., S., 4 to 8 ins.	7.00	35.00			
4-yr., S., 6 to 10 ins.	10.00	50.00			
4-yr., T., 5 to 10 ins.	17.00	85.00			
<b>• NORWAY SPRUCE—Fast-growing</b>					
Special strain of our own collection.					
2-yr., S., 5 to 10 ins.	7.00	35.00			
3-yr., S., 8 to 14 ins.	10.00	50.00			
5-yr., T., 12 to 18 ins.	30.00	.....			
Excellent understock.					
<b>• WHITE SPRUCE</b>					
3-yr., S., 8 to 12 ins.	8.00	40.00			
<b>• COLORADO BLUE SPRUCE</b>					
3-yr., S., 5 to 10 ins.	10.00	50.00			
5-yr., T., 8 to 12 ins.	35.00	175.00			
<b>• DOUGLAS FIR</b>					
3-yr., S., 6 to 8 ins.	10.00	45.00			
<b>• AMERICAN ARBORVITAE</b>					
3-yr., S., 6 to 10 ins.	8.00	40.00			
<b>• CANADIAN HEMLOCK</b>					
3-yr., S., 8 to 14 ins.	17.00	85.00			
<b>• RED BARBERRY</b>					
2-yr., S., 8 to 14 ins.	11.00	55.00			
3-yr., S., 12 to 18 ins.	15.00	75.00			
<b>• CONCOLOR FIR</b>					
2-yr., S., 3 to 6 ins.	10.00	50.00			
<b>• JAPANESE YEW</b>					
<i>Taxus cuspidata capitata—upright pyramidal</i>					
2-yr., S., 3 to 6 ins.	\$20.00	\$175.00			
<i>Taxus cuspidata—spreading</i>					
1-yr., T., 5 to 6 ins.	20.00	150.00			
2-yr., T., 8 to 12 ins.	40.00	350.00			
<i>Taxus hicksii—upright</i>					
1-yr., T., 5 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 10 ins.	40.00	.....			
<i>Taxus Moon's columnaris</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
<i>Taxus brownii</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 10 ins.	40.00	350.00			
<i>Taxus hatfieldii—upright</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
<i>Taxus intermedia—spreading</i>					
1-yr., T., 4 to 6 ins.	25.00	175.00			
2-yr., T., 6 to 8 ins.	40.00	350.00			
<b>• JUNIPER HETZII GLAUCA</b>					
1-yr., T., 5 to 7 ins.	25.00	200.00			
<b>• GLOBE ARBORVITAE</b>					
<i>Woodwardii</i>					
1-yr., T., 4 to 6 ins.	30.00	250.00			
<i>Hovey's</i>					
1-yr., T., 4 to 6 ins.	30.00	250.00			
<b>• PYRAMIDAL ARBORVITAE—Compacta</b>					
1-yr., T., 5 to 7 ins.	25.00	200.00			
<b>• JAPANESE HOLLY</b>					
<i>Ilex rotundifolia</i>					
1-yr., T., 5 to 6 ins.	20.00	175.00			
2-yr., T., 6 to 8 ins.	30.00	250.00			
<i>Ilex convexa</i>					
1-yr., T., 4 to 6 ins.	20.00	175.00			
<b>• WHITE DOGWOOD</b>					
Seedlgs., 12 to 18 ins.	10.00	50.00			
Seedlgs., 18 to 24 ins.	13.00	65.00			

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of Nurserymen, annual meeting, Hilton hotel, San Antonio, Tex.

August 26 to 30—National Shade Tree Conference, annual convention, Sheraton hotel, Philadelphia, Pa.

September 3 to 5—Oregon Association of Nurserymen, summer convention, Gearhart hotel, Gearhart, Ore.

September 5 and 6—Kansas Association of Nurserymen, J. H. Skinner Nursery Co., Topeka, Kan.

September 9 and 10—Arkansas Nurserymen's Association, annual convention, Petit Jean lodge, on Petit Jean mountain, near Forrilton, Ark.

September 17 to 19—California Association of Nurserymen, annual convention, Miramar hotel, Santa Barbara, Calif.

October 18 to 20—20th annual Texas Rose Festival, Tyler, Tex.

## MAIL-ORDER PROGRAM

Set for August 11 to 13, the annual summer meeting of the National Mail Order Nurserymen's Association will be held at the Hotel LaSalle, Chicago, with the following program:

### AUGUST 11

Exhibitors' display booths open for inspection in the Press gallery, on the 18th floor, 1 to 5 p. m.

### AUGUST 12

Call to order at 9:30 a. m., by President Jack Hanley, Hanley's Nursery, Carbondale, Ill.

Reports of president and secretary; F. T. C. advisory committee—Clark Kidd; membership committee—Ted Korves; research committee—George Rose; legislative committee—Harold Timmons.

Appointment of auditing and nominating committees.

"Fighting the Postal Rate Battle," by Erskine Steward, general manager, Washington office, National Council of Business Mail, Inc.

"Along the Potomac Front," by Dr. Richard P. White, executive vice-president, American Association of Nurserymen.

"Your Business and the Fair Trade Rules," by James Horton, F. T. C. legal adviser of the A. A. N.

Lunch. Address, "Running a Mail-Order Business in 1957," by Charles B. Mills, O. M. Scott & Sons Co., Marysville, O.

Recess.  
"Gibberellic Acid—A Tool for You and for Your Customer," by D. G. Jenkins, Merck & Co., Rahway, N. J.

"Landing Inquiries and Orders Within Your Budget." A symposium on new ideas of using media to build and maintain your business.

"Buying Best in Newspaper Advertising," by Frank Leeming, St. Louis Post Dispatch.

"Building a Catalog That Will Produce," by Bruce Traxler, A. B. Morse Co., St. Joseph, Mich.

Order and inquiry symposium. Moderator: John E. Tillotson, Flower and Garden magazine.

Social hour.

### AUGUST 13

Call to order.  
Packaging and Shipping Round-Up:  
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# SALE ON WHITE DOGWOOD

We have 25,000 nursery-grown, transplanted, finest stock, single or multiple stem, for fall delivery.

3 to 4 ft., B&B . . . . .	\$ 1.50
3 to 4 ft., B.R. . . . .	1.00
4 to 5 ft., B&B . . . . .	2.50
4 to 5 ft., B.R. . . . .	2.00
5 to 6 ft., B&B . . . . .	3.50
5 to 6 ft., B.R. . . . .	3.00
7 to 8 ft., B&B, heavy . . . . .	7.50
8 to 10 ft., B&B, very heavy . . . . .	15.00

Now is the time to order this beautiful stock at these very low prices.

We also have many scarce items to offer this fall at most reasonable prices. Write for our new catalog.

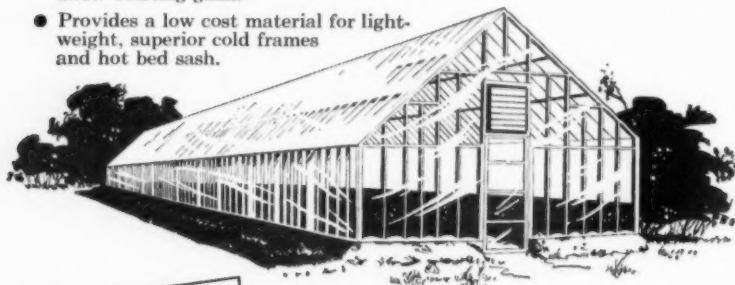
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1. Minimum 10-year life — indicated by scientific tests.
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Customer?"—An analysis of results of the test ordering project conducted by Iowa State College, Ames, with special emphasis on the 1957 perennial shopping survey by Dr. J. P. Mahlstedt, associate professor of horticulture.

"New Commercial Adaptations in Packaging Techniques," by John Farley, Milprint, Inc., and Verl Davis, R. M. Kellogg Co., Three Rivers, Mich.

Recess.

"A Practical Cost-Account System for a Mail-Order Nursery," by Linden S. Speers, partner, Peat, Marwick, Mitchell & Co.

"A Proposal for Pooling Cost Information," by John Lemon, vice-president, Conard-Pyle Co., West Grove, Pa.

Lunch. Address, "Reaching the Prospect in Today's High-Cost Advertising Market," by G. J. Culliman, vice-president, Harry Schneideman, Inc.

Reports of regional vice-presidents.

Business session: Reports of auditing committee, necrology committee and nominating committee.

Election of officers.

New business: A. A. N. proposal for office of special services at Washington, D. C.

### SOUTHERNERS' SCHEDULE

Announcement of the program for the annual convention of the Southern Nurserymen's Association, August 11 to 13, at the Hotel Fort Sumter, Charleston, S. C., has been made by Leo B. Scott, Spartanburg, S. C., executive secretary. A feature of this year's program, which it is hoped may be continued in subsequent years, is provision to have the workers in ornamental research in 14 southern experiment stations present at the convention. Following is the schedule of events:

#### AUGUST 11

Meeting of board of directors.  
Opening of exhibits in the lobby and on the mezzanine, at noon.  
Swimming at the Aichele beach home on Isle of Palms in the afternoon.  
Registration in lobby.  
Evening South Carolina reception in the Charleston room.

#### AUGUST 12

Breakfast for state association presidents, with E. V. Dabbs, president of the South Carolina Nurserymen's Association, as host.

Registration in lobby.

Meeting of workers in ornamental research, with Dr. M. D. Farrar, dean of agriculture at Clemson College, presiding, in the Citadel room.

Southern Nurserymen's Association business meeting, in the Terrace room.

Recess.

Panel discussions.

Lunch and business session for South Carolina Nurserymen's Association, in the Terrace room.

Visit beach or nurseries or take city tour in afternoon.

Harbor boat trip, with box supper at Fort Sumter. Return about 9 p. m. Cost included in registration.

#### AUGUST 13

A. A. N. breakfast, in the Terrace room.  
Special ladies' program, arranged by



## Eliminate costly hand labor... do your landscaping the modern way!



## The YORK RAKE Model RE does these jobs better...faster!



Rakes stones, roots and debris



Grades, levels and mulches soil



Reverses for bulldozing



Spreads stone and gravel

One man operating a York Rake can do more work in a few hours than a crew of men can accomplish in a whole day when they do the job by hand! The York Rake is practically the only tool you need to do every landscaping job from rough grading to final raking. You save on labor... you save buying extra tools, and you save the time and bother of bringing a lot of equipment to and from every job. Owners tell us — "The York Rake paid for itself on the first job!"

### Sturdy...easy to adjust and operate

The York Rake is built for rugged service. The teeth are heavy-duty alloy spring steel, individually mounted on spring steel heads. The spacing between the teeth provides an ideal screening action for the most efficient raking. The Rake can be quickly adjusted to 5 forward and 5 reverse positions to give the proper raking angle for every type of working condition. The operator can raise, lower and tilt the Rake from the tractor seat. Model RE fits all tractors with a standard 3-point hitch. Smaller, lighter models for use with I.H.C. Cub, Lo-Boy and 100 Fast Hitch, Massey-Harris Pony and Pacer Tractors.

### Write for descriptive folder and prices—

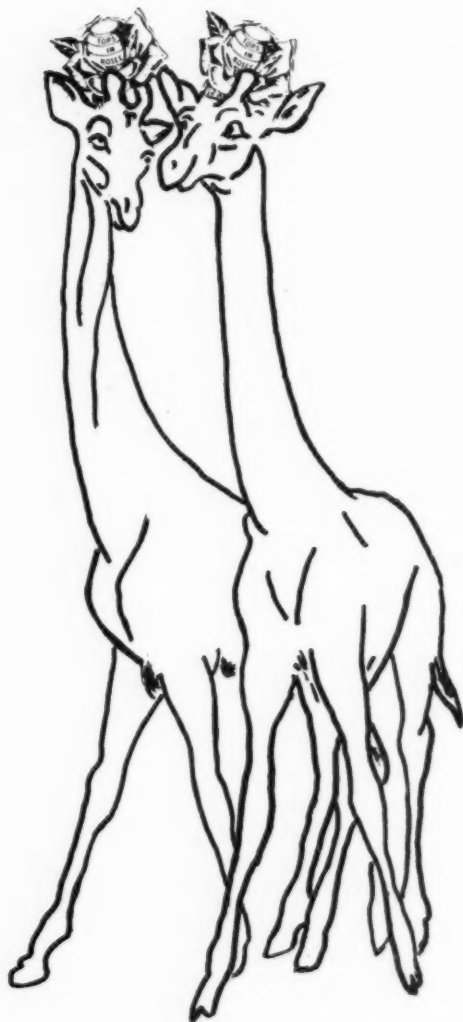
Get the complete story on this versatile, profitable tool NOW!

Write to Department AN-2

**York**  
**MODERN CORPORATION**  
UNADILLA, NEW YORK

## Tops In Roses

HIGH In Demand



LOW In Supply

It's HIGH time to give us the LOW-down on your needs for the coming season.

All inquiries are welcome and will be given prompt attention.



**WEEKS WHOLESALE  
ROSE GROWER**

O. L. Weeks

926 W. Ely

Ontario, Calif.



Mrs. Philip Higdon and Mrs. F. J. Aichele, Jr.

Joint session of Southern Nurserymen's Association, South Carolina Nurserymen's Association and ornamental research workers, with President Jack Aichele presiding, in the Terrace room.

Reports from and discussion with ornamental research workers.

Recess.

Continue reports and discussion.

Presentation of Slater Wight memorial award.

Luncheon, in the Terrace room. Cost included in registration.

Business session of Southern Nurserymen's Association.

Meeting of the board of directors.

Cocktail party.

Banquet and dance, in the Terrace room. Cost included in registration.

### MICHIGAN NURSERY TRIP

At the conclusion of the program for the joint meetings of the Michigan Association of Nurserymen and the Michigan Landscape Conference, held in cooperation with the department of horticulture and department of continuing education at Michigan State College, East Lansing, August 6 and 7, the summer nursery trip will be held August 8 to 10.

The tour party will leave from Kellogg Center on the university campus at 8 a. m. August 8 and will make its first stop at the Wildwood Gardens, Jackson, Mich., at 9 a. m. After a noon visit to Borden's cheese factory at Van Wert, O., the party will arrive at the Siebenthaler Co. garden store at Dayton, O., at 4 p. m. and later leave for the firm's Moraine Nursery.

August 9, the tour will include a visit to the Berryhill nursery, Springfield, O., in the morning, and the Ilgenfritz Nurseries and the Greening Nursery Co., both at Monroe, Mich., in the afternoon.

On the final day of the trip, Martin Olsen's Nursery, New Boston, Mich., and the Plymouth Nurseries, Plymouth, Mich., will be visited in the morning, and the return will be made to East Lansing for arrival at Kellogg Center at 1:30 p. m.

### BILOXI ACTIVITY

Meeting August 3 to 6 at the Buena Vista hotel, Biloxi, Miss., the Mississippi Florists' and Nurserymen's Association will enjoy recreational features preceding the school and business sessions that start August 5. Saturday evening, August 3, there will be an informal get-acquainted party on the Buena Vista deck at 6:30 o'clock. August 4, after registration during the afternoon, there will be a sea food supper served at 6:30 o'clock on the apron of the newly completed swimming pool on the

# WE OFFER

## Quality and Perfection- Grown Material

We are growing an excellent assortment of top-quality, well-sheared, transplanted plants. Our present plantings are larger in sizes and quantities than ever previously offered.

**Taxus Moon's columnaris** has been recognized as the most desirable yew grown.

### TAXUS

Moon's columnaris  
Capitata  
Cuspidata  
Brevifolia  
Hicksi  
Intermedia

### THUJA (Arborvitae)

Elegantissima  
Pyramidalis  
Wareana  
Globosa  
Woodwardi

### JUNIPERUS

Pfitzeriana  
Hetzi  
Excelsa stricta  
Depressa plumosa

### ILEX (Holly)

Opaca (named varieties)  
Bullata  
Crenata  
Chinese

### PINUS

Mugho  
Austrian

### DOGWOOD

Pink  
White

### HYBRID RHODODENDRONS

Choice named varieties,  
good selection.

### AZALEA

A splendid assortment in  
good hardy varieties.

### ACER ATROPURPUREUM

Our plants are from select  
grafts and cuttings.

### FLOWERING CHERRIES

Weeping, top-grafted  
Kwanzan, upright

### PIERIS JAPONICA

PICEA and ABIES  
In variety

We offer a wide selection of plant material grown in containers. We have a good supply in many more varieties.

4000 perfectly grown Norway Maple, up to 2½-in. cal.

We cordially invite your visit to our nurseries to inspect the exceptional quality of our stock.

# RICKERT NURSERIES

SUCCESSOR TO  
1767

# MOON'S

ESTABLISHED  
1767

*America's Oldest Nurseries*

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that the C. R. Burr & Co., Inc., has contributed to our success by supplying us with, in our opinion, the finest packaged line of nursery stock to be found in the trade today."

John Ganim  
Ganim's Outdoor Market  
Bridgeport, Conn.

Whether you're just starting a garden mart or you have been established for years, we think that we can offer you products and services that will help you where it counts—the profit column.

We believe you'll agree these are good reasons to BUY BURR:

1. Plants of the highest quality.
2. The finest packaging in the industry.
3. Professional, expert (but low-pressure) sales counsel.
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nurseries

C. R. Burr & Co., Inc.  
Manchester, Connecticut  
or Phone Mitchell 3-4161

beach across the street from the hotel. Swimming will be in order before supper, the entire pool being reserved for the group during this feature.

Entrance to the trade exhibits in the Hurricane room will be by badge only.

Monday morning, the board of directors of the state group will meet for breakfast; new and old directors will meet again Tuesday noon. While three sessions of a design school are held for the florists on the two days, growers will assemble for an equal number of meetings. Business sessions of the association will be held Monday and Tuesday; voting for officers will take place Tuesday morning. Tuesday morning there will be an A. A. N. breakfast. Both Monday and Tuesday evenings will have recreational events, with dancing on the deck the feature August 5 and the president's banquet and dance as the closing affair August 6.

A schedule of the growers' programs follows:

### AUGUST 5 — MORNING

"The Effects of Several Watering Methods on Seed Germination," by Roy Moseley, Mississippi State College student and scholarship recipient.

"Ideas in Landscaping," by Ed C. Martin, Jr., landscape architect, State College, Miss.

Film.

### AUGUST 5 — AFTERNOON

"Merchandising of Ornamentals," by Don West, Verhalen Nursery Co., Scottsville, Tex.

"Results of Some Pot Mum and Kalanchoe Studies," by C. O. Box, Mississippi State College.

"A Preliminary Study of the Effect of Para-chlorophenoxyacetic Acid on Fruit Set of Buford Holly," by Douglas Johnson, Mississippi State College student and scholarship recipient.

"Plant Diseases in Relation to Nursery Crop Production," by Dr. Clinton Graves, plant pathologist, Mississippi State College.

Film.

### AUGUST 6 — MORNING

"Bulbs and Flowers of Holland and Responsibilities of the State Plant Board," by R. P. Clomer, chief inspector, state plant board, State College.

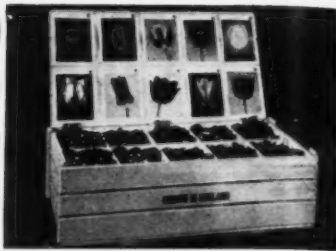
"A Report of Fertilization Studies of Container-Grown Nursery Stock," by C. O. Box.

"A Study of Kalanchoe Photoperiod," by H. E. Quimby, Mississippi State College.

### FLORIDA SHORT COURSE

August 21 to 23, the third annual Florida nurserymen's and growers' short course will be held in the Dan McCarthy Hall auditorium of the University of Florida, Gainesville. Cooperating in furnishing the program are the agricultural extension service, the agricultural experiment station, the college of agriculture and

## A COMPLETE HOLLAND BULB DEPARTMENT— in a single DISPLAY CASE



A strongly "Made in Holland" attractive wooden display case, the top lid opens up as an eye catching panel picturing the Tulips in natural colors. The case is divided in 10 bins, each bin is filled in Holland with specially selected bulbs, for size, quality and appearance. Bulbs displayed in this manner sell on sight.

Tulip Display Case "A" includes  
**1250 EXHIBITION SIZE BULBS**  
125 each, of 10 fast selling Tulip varieties

**COMPLETE \$51.00**

FOB Port of Entry

Additional Display Cases of Dutch Hyacinths, Daffodils, Crocus, etc., and combinations are also offered.

**VISU PAKS** We offer a large assortment of the top selling Tulips, Hyacinths, Daffodils, etc., packaged in clear polyethylene bags with color illustrations. Write for special "complete display" offer.

**STASSEN FLORAL GARDENS, Inc.**  
Dept. 31, Roslyn Heights, N.Y.

USE

**CRAG**

SESONE  
HERBICIDE-1



... FOR WEED CONTROL ECONOMICAL!

3 lbs. controls weeds on one acre for 3 to 6 weeks!  
\$2.15 per lb. (2-lb. bags)  
\$2.00 per lb. (16 2-lb. bags)  
\$1.95 per lb. (50-lb. drum)  
(50 lbs. delivered freight prepaid.)

Complete Catalog Available  
Wholesale Nursery Supplies

**AMERICAN-DUTCH TRADING CO., INC.**  
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## ILEX BULLATA

A very choice, very hardy, low-growing evergreen, with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.  
6 to 8 ins., T....15s. 8 to 10 ins., T....20s.

Send for list of other unusual plants.

**ALANWOLD NURSERY**  
NESHAMINY, Bucks Co., PA.

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

**STEDMAN NURSERY, INC.**  
NEWFANE, N. Y.

## For weed control in nursery stock

**CRAIG**  
BRAND

# Sesone

HERBICIDE-1

## PAYS MANY WAYS!



**Saves \$80  
or more  
per acre**

**You save hand weeding** and hoeing in the rows. Sesone (formerly called Herbicide-1) cuts hours of hand work and can save \$80 or more per acre. It controls most annual weeds that infest nursery plantings, including weeds that are a problem in cool as well as hot weather.



**Kills weeds  
as they  
sprout**

**You knock out weeds** at their weakest with CRAIG Sesone. It kills sprouting seeds of most broadleaf and grass weeds before they can rob your nursery plants of water, plant food, and sunlight. Weed control with Sesone enables field and lined-out stock to grow faster.



**Harmless  
on plant  
foliage**

**CRAIG Sesone becomes active** only when it makes contact with moist soil. You spray it right over established nursery stock for excellent weed control in the rows. Use Sesone to prevent weeds in roses, ilex, yew, spruce, pine, boxwood, privet, phlox, gladiolus, daffodil, iris, lily, and many other plants listed on the package label.



**One  
application  
lasts  
3 to 6 weeks**

**You can avoid** the constant search for hand labor to do weeding by using CRAIG Sesone. Just spray it on after the first cultivation. Get weeks of effective weed control. Then when weeds begin to show, cultivate and apply Sesone for another three to six weeks of economical weed control. Irrigate lightly if the soil is dry.

**See Your CRAIG Sesone Supplier Today!**

Get CRAIG Sesone now in 2-lb. bags or 50-lb. Fiberpak drums. Sesone saves you work, worry, and expense!

"Craig", "Union Carbide", and "Sesone" are trade-marks of Union Carbide Corporation.

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Union Carbide Chemicals Company**

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## GUARANTEED - TO - LIVE TRANSPLANTED EVERGREENS



	Per 1000
American Arborvitae, 4-yr. transplants (2-2), 4 to 8 ins.	\$70.00
Douglas Fir, 4-yr. transplants (2-2), 4 to 8 ins.	70.00
Mugho Pine, 4-yr. transplants (2-2), 3 to 6 ins.	70.00
Scotch Pine (South Sweden), 4-yr. transplants (2-2), 6 to 10 ins.	75.00
Black Hill Spruce, 4-yr. transplants (2-2), 4 to 6 ins.	70.00
Norway Spruce, 4-yr. transplants (2-2), 5 to 10 ins.	70.00
White Spruce, 4-yr. transplants (2-2), 5 to 10 ins.	70.00

### SEEDLINGS

(not guaranteed)

American Arborvitae, 3-yr. seedlings (3-0), 3 to 5 ins.	25.00
Balsam Fir, 3-yr. seedlings (3-0), 3 to 5 ins.	25.00
Douglas Fir, 3-yr. seedlings (3-0), 3 to 5 ins.	25.00
Mugho Pine, 3-yr. seedlings (3-0), 3 to 5 ins.	25.00
Scotch Pine (Austrian Hill), 3-yr. seedlings (3-0), 10 to 15 ins.	30.00
Scotch Pine (North German), 3-yr. seedlings (3-0), 8 to 15 ins.	25.00
Black Hill Spruce, 3-yr. seedlings (3-0), 3 to 5 ins.	20.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 3 to 5 ins.	30.00
Engelmann Blue Spruce, 3-yr. seedlings (3-0), 4 to 8 ins.	30.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 6 ins.	20.00
White Spruce, 3-yr. seedlings (3-0), 4 to 8 ins.	25.00

#### TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

We believe that we grow and ship more transplanted evergreen trees than any other privately owned nursery in the country. Several other varieties of transplants available. Send for complete list of stock.

**WESTERN MAINE FOREST NURSERY CO., Dept. AN-817 Fryeburg, Maine**

#### OUR GUARANTEE

90 per cent of all transplants sold at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1958. (Seedlings not guaranteed.)

### BARRY'S EVERGREEN NURSERY

Phone: 3777 White Haven, Pa.

Collected Stock, B&B  
Rhododendron Maximum  
Mountain Laurel  
Shade Trees  
Price list on request.

### HYBRID RHODODENDRONS

Evergreens,  
Ornamental Trees  
and Shrubs

### SEPERS NURSERY

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VINELAND, N. J.

### QUALITY LINERS

In Wide Assortment  
**NURSERY SALES, INC.**  
525 Stevens Ave., P. O. Box 295  
RIDGEWOOD, N. J.  
Gl. 4-6848

### DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.  
Write for Wholesale Price List.

**LOVETT'S NURSERY, INC.**  
LITTLE SILVER, N. J.

### LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

### DEERFIELD NURSERIES

DEERFIELD, N. J.



### PRINCETON NURSERIES

A very complete line of  
Quality Ornamental Stock.

Come to see us.

Send us your Want List.

Write for catalog.

### PRINCETON NURSERIES

Ph. Princeton 1-1776 PRINCETON, N. J.



### QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

**DANEGGER'S HI-WAY NURSERY, INC.**  
P. O. Box 536 MILFORD, DEL.

the state plant board. The schedule follows:

#### AUGUST 21 — MORNING

Plant materials and landscaping:  
Tour of university facilities and demonstrations.

1. Soil-testing demonstration — McCarthy Hall.

2. University greenhouses — Archer road.

3. Turf plots or horticultural unit. Lunch.

#### AUGUST 21 — AFTERNOON

Moderator: E. W. McElwee.

Welcome, by O. M. Watkins.

"A Solution for Problems of Landscaping Small Homes," by Milton Link, Fort Lauderdale, president, F. N. G. A.

"Landscape Maintenance," by Robert Perry.

#### AUGUST 21 — EVENING

Moderator: S. A. Rose.

Buzz session on topics of the day.

#### AUGUST 22 — MORNING

Topics for growers and nurserymen — Moderator: J. N. Joiner.

"Recent Research in Insect Control," by S. H. Kerr.

"Proposed Standards for Grading Nursery Stock," by M. F. Oberbacher.

"Selected List of Ornamental Plants for Florida," by E. W. McElwee.

"Palms and Street Trees for Florida," by Erdman West.

"Records and Cost Accounting," by C. C. Moxley.

Lunch, Dutch treat.

#### AUGUST 22 — AFTERNOON

Moderator: E. W. McElwee.

"New Methods and Materials of Weed Control Measures," by E. O. Burt.

"Basic Principles of Propagating Plants," by J. N. Joiner.

"Propagation as Practiced by Commercial Nurseries," by S. A. Rose.

"Report on Propagation Experiments at the University of Florida," by R. D. Dickey.

#### AUGUST 22 — EVENING

Moderator: T. J. Sheehan.

Buzz session — Speakers of the day.

#### AUGUST 23 — MORNING

Specialty crops—Group discussions:  
"Foliage Plants" — Leader: Lou Clark.

"Orchids" — Leader: To be selected.

"Cut Flowers" — Leader: Orris Evers.

"Turf and Landscaping" — Leader: Herb Williams.

"Nursery Stock" — Leader: Richard Johnson.

### WISCONSIN PROGRAM

The Evergreen Nursery, Sturgeon Bay, Wis., will be the host for the summer meeting of the Wisconsin Nurserymen's Association August 26 and 27. Door county offers many vacation features, besides which, Thomas S. Pinney, of the Evergreen Nurseries, secretary-treasurer of the state association, has promised other special events.

Monday, August 26, the convention group will be conducted through the nursery, where there will be container stock to view. Luncheon will





*Better Understock...like Armstrong Roses!*



Being well developed in the right places helps! Take roses. A strong, robust root system enables the bare-root bush you sell to start fast and grow vigorously in its new home. The difference is the Dr. Huey understock we use. For all soils and climate, it has proved best.

At Armstrong's we grow for vigor, grade with rigor, handle every bush with care. Better reserve your share of our 1957-58 crop. Write for our wholesale list!

**ARMSTRONG NURSERIES**  
ONTARIO, CALIFORNIA

## QUALITY STOCK

### For the Coming Season

*Azalea schlippenbachii*,  
12 to 18 ins.

*Azalea vaseyi*, 12 to 18 ins.

*Azalea mollis*, 12 to 18 ins.

*Dogwood*, White-Flowering,  
4 to 5 to 6 ft.

*Ilex crenata*, 15 to 18 to 24  
ins.

*Ilex opaca*, gallon cans

*Pieris japonica*, 15 to 18 ins.

*Taxus browni*, 12 to 15 to 18  
ins.

*Taxus henryi*, 12 to 15 ins.

### Lining-Out Stock

*Azalea vaseyi*, 4-yr., XXX

*Azalea mollis*, 4-yr., XXX

*Pieris japonica*, 3-yr., XX

*Taxus capitata*, 4-yr., S., XX

*Taxus capitata*, 3-yr., S., X

*Taxus Green Mountain* (New  
Patent No. 1311), 3-yr., XX

*Taxus hatfieldi*, 2 and 3-yr.,  
XX

*Taxus Halloran*, 2-yr., XX

*Taxus henryi*, 2-yr., XX

*Taxus intermedia*, 2-yr., XX

*Taxus browni*, 2-yr., XX

*Taxus browni*, 1-yr., X

*Taxus hicksi*, 1-yr., X

*Magnolia soulangeana*, 2-yr.,  
XX

### Seedlings

*Acer platanoides*, 1-yr., S.

*Gleditsia triacanthos inermis*,  
1-yr., S.

*Quercus palustris*, 1-yr., S.

## BROOKFIELD GARDENS

Delaware, N. J.

be served free on the grounds at noon, after which there will be a demonstration of new equipment by the R. L. Ryerson Co., Milwaukee, and the nursery.

Starting at 3 o'clock, boat rides on Sturgeon bay in cabin cruisers will be available. From 3 to 5:30, also, trips can be made through the nursery and garden center or arrangements can be made for fishing, swimming, golf or more sight-seeing through this popular resort region.

At 5:30 o'clock, there will be a free fish boil at the Evergreen Nursery. This is an event in the region; people travel hundreds of miles to enjoy the delicious Lake Superior trout that is used.

Tuesday morning there will be additional trips through the nursery, while mimeographed instructions for excursions through other parts of the county will be provided.

Because the convention is being held during the busy resort season, Tom Pinney urges all who plan to attend to send reservations to him by August 20. A limited number of motel rooms and overnight cottages have been reserved for the meeting period.

### TEXAS CONVENTION PLAN

B. R. Fullingim, executive secretary of the Texas Association of Nurserymen, announces that the group's annual convention, to be held August 25 to 28 at the Hilton hotel, San Antonio, Tex., will be conducted, after registration Sunday afternoon, according to the following program:

#### SUNDAY, AUGUST 25

Tour of missions and other historic spots, ending at the Alamo.

Annual meeting of the Texas Landscape Association.

Introduction of new Alamo rose.

Reception and hospitality hour, Roof Garden.

T. L. A. board of directors' meeting.

#### MONDAY, AUGUST 26

T. A. N. board of directors' meeting and breakfast, Walnut room.

Morning free for viewing displays in exhibit hall.

Lunch; R. L. Nicholson, president, Liquid Carbonic Corp., Chicago, Ill., guest speaker, Roof Garden.

General session; R. C. Aldridge, Sr., T. A. N. president, presiding.

Welcome address, by the mayor of San Antonio.

Response, by R. C. Aldridge, Sr.

President's report and appointment of special committees.

Executive secretary's report.

Fiesta dinner at La Villita; dancing and entertainment.

#### TUESDAY, AUGUST 27

Morning free for visiting exhibits.

Ladies' luncheon; dramatic entertainment, Colonial room, Menger hotel.

Bachelor luncheon: Curtis Porterfield,

## FOR 57 YEARS

*Our business has been growing*

**Rhododendrons  
Azaleas**

**Perennials, Roses**

**All Nursery Items**

**BOBBINK NURSERIES, INC.**

586 Paterson Ave.

E. RUTHERFORD, N. J.

## HESS' NURSERIES LINING-OUT STOCK

Mountain View, New Jersey

QUALITY MERCHANDISE  
AT REASONABLE PRICES

**VANDERBROOK  
NURSERIES,  
INC.**

MANCHESTER, CONN.

Wholesale Nurserymen Since 1922

## HEMLOCK

Rhododendron—Kalmia

Azalea

**CURTIS NURSERIES**

CALLICOON, N. Y.

## MULTIFLORA ROSE

**BROOKVILLE NURSERIES**

Box 53, Northern Blvd.  
Glen Head, N. Y.

Choice Varieties of Lining-Out Stock

Write for our latest price list

**PALLACK BROS. NURSERIES, INC.**

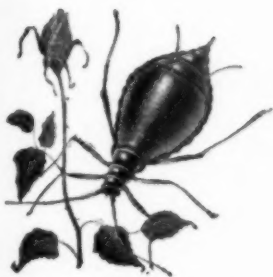
Route 19, 31 mi. north of Pittsburgh, Pa.  
Ph.: Zelienople 789

R.F.D. 1

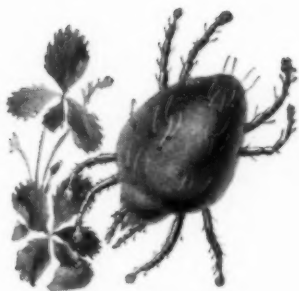
HARMONY, PA.

**PRONOUNCING DICTIONARY  
of Plant Names**

64 pages, 3000 names, 25¢ per copy  
American Nurseryman Chicago 4.



**APHIDS**—Probably the most common and damaging insect of ornamentals. Malathion stops all species of aphids whether on shade trees, shrubs or flowers. Because aphids build up fast, prompt spraying is recommended.



**SPIDER MITES**—Before malathion, a special miticide was needed to control mites. Now, you can clean them up along with the insects. The USDA has O.K.'d malathion for use against mites and 80 different insect pests.



**THRIPS**—These tiny insects rasp white streaks and patches in gladiolus, roses, many other flowers. Malathion controls thrips, whitefly, lace bug, mealybug, four-lined leaf bug, tarnished plant bug.



**BEETLES**—Malathion controls such hard-to-kill species as Japanese beetle, Mexican bean beetle, etc. Low toxicity to man and animals makes malathion ideal for nursery, park and home-gardener use.

## Malathion alone protects all flowers, shrubs, trees from all these pests

Offers safety-in-use, and  
leaves no harmful residues

Malathion solves the problem of *what* to use against *which* insect because it controls practically *all* pests attacking ornamentals. It's quick-acting and economical.

Malathion is *low* in toxicity to man and animals, offers your staff an extra margin of safety. The USDA calls it "one of the safest insecticides to handle". No respirators or protective clothing are required.

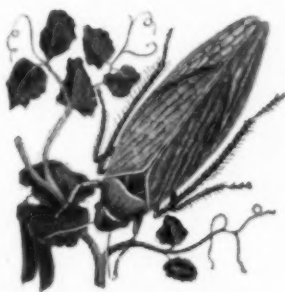
Malathion is available in spray or dust form under the brand name of well-known manufacturers. Ask your regular supplier about the brands he carries.

New, 1957 *Grower's Guide* tells how to control all the insects shown and listed in the captions. Write American Cyanamid Company, Phosphates and Nitrogen Division, Dept. PM, 30 Rockefeller Plaza, New York 20, N. Y.

CYANAMID



**FRUIT WORMS**—Use malathion for codling moth, plum curculio, leaf rollers, aphids, mites, scales other major pests of tree and small fruits. Compatible with most fungicides and liquid fertilizers.



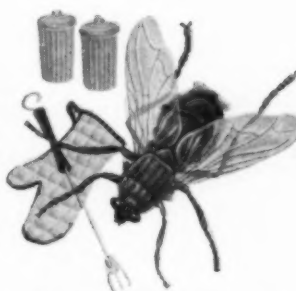
**LEAFHOPPERS**—Malathion stops potato leafhopper, rose leafhopper and most others in this lively group. It's available in emulsions, wettable powders and dusts. Also in aerosols for greenhouse use.



**SCALES**—Malathion controls these scales: oyster shell, euonymus, scurfy, azalea, pine leaf, magnolia, Fletcher, Florida-red, juniper, Monterey pine, soft, pine needle, black scale, oak kermes.



**WORMS**—Malathion kills worms, loopers, birch leafminer and boxwood leafminer. Also tent caterpillar, bagworms. A regular spray program based on malathion prevents damage to plantings.



**FLIES**—One application of malathion keeps killing flies two to four weeks, including DDT-resistant strains. Spray around buildings, barbecue areas, fences... wherever flies congregate, breed.



**MOSQUITOES**—Authorities are spraying whole towns with malathion to eliminate mosquitoes, including DDT-resistant strains. Treat breeding areas for larvae; barbecue area, etc., for adults.



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**Northern-Grown, Hardy,**  
**HYBRID RHODODENDRONS**

In varieties, sizes up to 3 ft., budded, superior stock.  
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**PACHYSANDRA**

**Terminalis** (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	5000 or more
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade...	\$5.00	\$45.00	\$42.50

Prepaid F.O.B. here in same shipment  
 Available for immediate shipment through December. Shipments anywhere including Canada. Good packing free. A good source of supply.

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**SHRUB OAK, N. Y.**

**J & P**

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 SHADE TREES**

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 HEDGE PLANTS, etc.**

*In good assortment.*

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**NEWARK, NEW YORK STATE**

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1957-1958 Season

Red-leaved Barberry, seedlings  
 Cydonia japonica, seedlings  
 Cornus florida, seedlings  
 Euonymus alatus compactus, liners  
 Forsythia Spring Glory, liners  
 Hydrangea arborescens grandiflora  
 Taxus, in variety, liners

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Write for free price list.

**SUNCREST EVERGREEN NURSERIES**

P. O. Box 305-F HOMER CITY, PA.

secretary, American Association of Nurserymen, guest speaker, Roof Garden.

Business meeting of A. A. N. region V, with C. J. Louden presiding.

General session, with R. C. Aldridge, Sr., presiding.

"Benefits of Group Insurance," by Harry Owens, Dallas, Tex.

T. A. N. committee reports.

Past president's banquet, with entertainment and dancing, Roof Garden.

WEDNESDAY, AUGUST 28

General session: Introduction of region officers, confirmation of T. A. N. constitution, election of new officers and selection of 1959 convention site. (Austin will be 1958 site.)

T. A. N. board of directors' meeting and luncheon, Walnut room.

**SHADE TREE CONFERENCE**

In the plans announced for the 33rd annual convention of the National Shade Tree Conference at Philadelphia, Pa., August 26 to 30, there appears for the first time a proposal of a youth program on the final day of the sessions, August 30, when there will also be a ladies' program and a general trip to the famous Longwood Gardens. The complete schedule as given by L. C. Chadwick, Ohio State University, Columbus, secretary-treasurer of the conference, follows:

AUGUST 26

Registration and visit to commercial exhibits.

Welcome to Philadelphia, by Mr. Noble, director of Fairmount park.

"How a Tree Grows," by Dr. W. H. Camp, University of Connecticut, Storrs.

"The Importance of Research in Arboriculture," by Dr. Phillip L. Rusden, Bartlett Tree Research Laboratories, Stamford, Conn.

Split Sessions—

National Arborists Association meeting:

"Drop-Crotch Trimming vs. Shear Trimming for Line Clearance," by Frank E. Graham, Alabama Power Co., Birmingham, Ala.

"Disposal of Wood from Trimming and Tree Removal."—Panel discussion.

Municipal arborists, shade tree commissioners and city foresters' session, with Frank E. Karpick, bureau of forestry, Buffalo, N. Y., moderator:

"A Planned Program for Dutch Elm Disease Control," by J. A. Dietrich, park superintendent, Greenwich, Conn.

"Propagation of Some Little-Used Shade and Street Trees," by Roger Coggeshall, propagator, Arnold Arboretum, Jamaica Plain, Mass.

"Department Crews vs. Contract Crews for Municipal Shade Tree Operations," panel discussion, with T. J. Haskell, Lansing, Mich., leader.

Hospitality party.

AUGUST 27

"Effect of Container Growing on Tree Roots," by Dr. Ray R. Hirt, State College of New York, Syracuse.

"Selection and Propagation of Functional Shade and Street Trees," by Maunsell Van Rensselaer, director, Saratoga

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## *Acer palmatum atropurpureum*, grafts

3 ft., B&B, heavy.....\$ 6.00

## *Acer platanoides*

2 to 2½-in. cal., B.R..... 12.50

2½ to 3-in. cal., B.R..... 15.00

Larger up to 8-in. cal.

## *Albizzia*

6 to 8 ft., B&B..... 5.00

## *Cedrus atlantica glauca*

3 to 4 ft., B&B..... 7.50

## *Cornus florida rubra*

4 ft., B&B..... 5.00

## *Cotoneaster divaricata*

3 ft., heavy, B&B..... 3.00

## *Laburnum vossi*

6 to 8 ft., B&B, heavy..... 7.50

8 to 10 ft., B&B, heavy..... 10.00

## Flowering Crab Apple, 8 varieties, all heavy

6 to 8 ft., B&B..... 7.50

8 to 10 ft., B&B, \$10.00 to \$12.50

## *Picea excelsa*, sheared

3 ft., B&B .....\$ 3.00

## *Pieris japonica*

12 to 15-in. cal., from beds, B&B..... 1.00

2 ft., B&B..... 3.50

2 to 2½ ft., B&B..... 4.00

4 ft., B&B, very heavy..... 10.00

## *Leucothoe catesbaei*

12 to 15-in. cal., B&B..... 1.00

2 ft., B&B, heavy..... 3.00

## *Pyracantha coccinea lalandi*

6-in. pots ..... 1.00

9-in. pots, \$2.00 to \$3.00

5-gal. cans ..... 5.00

## *Rhododendron*, hybrid grafts, heavy

2 ft. .... 5.00

2 to 2½ ft. .... 6.50

2½ to 3 ft. .... 7.50

## *Tsuga canadensis*, heavy

2 to 2½ ft. .... 3.00

3 ft. .... 3.50

3 to 4 ft. .... 5.00

4 to 5 ft. .... 7.50

6 to 7 ft. .... 12.50

We have many other good buys. 250 acres of choice plants. Also a number of odd items. Please write for our new catalog.

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Jericho Turnpike Middle Island, L. I., N. Y.

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Rooted cuttings of Kurumes and Pericats, \$7.50 per 100; \$60.00 per 1000. August and September delivery.

Budded, hardy Kurumes, Pericats and Indicas for forcing or outdoor planting.

Lining-out stock of *Ilex bullata*, *Taxus capitata*, *cuspidata* and *hicksi*.

Ask for complete list.

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Ridgewood, N. J.

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- ILEX OPACA
  - TAXUS FASTIGIATA
- TAXUS REPANDENS
  - TAXUS CUSPIDATA
- HYBRID RHODODENDRON
  - TSUGA CANADENSIS

For 39 years  
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Growers and Distributors of  
**ORNAMENTAL NURSERY STOCK**

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60 acres growing. Skaneateles, N. Y.

### NORTHERN COLLECTED EVERGREENS FERNS

**PLANTS SHRUBS**  
**WILLIAM CROSBY HORSFORD**  
CHARLOTTE, VT.

Horticultural Foundation, Saratoga, Calif.

"Tree Borers and Effective Control Methods," by Dr. Donald Schuder, Purdue University, Lafayette, Ind.

Keynote luncheon. Address by Jack Kelly, vice-president, Fairmount Park commission.

"Support of Research at State Agricultural Experiment Stations by Federal Grant Appropriations," by Dr. William Kennard and Wilbur D. McClellan, office of experiment stations, Washington, D. C.

"Attracting Quality Personnel to Arboriculture," by Noel B. Wysong, Cook county forest preserve district, River Forest, Ill.

Business session in afternoon.

Open meeting in evening.

"The Use of Plants in the Garden," by Owen Schmidt, Penn Valley, Narberth, Pa.

#### AUGUST 28

"Antibiotics for Tree Disease Control," by Dr. John Dunegan, United States Department of Agriculture, Beltsville, Md.

"Systemic Insecticides: Their Nature and Use in Arboriculture," by Dr. C. C. Hamilton, New Jersey agricultural experiment station, New Brunswick.

Commercial equipment demonstrations in the afternoon.

Safety demonstrations.

#### AUGUST 29

Public utility arboriculture session, with Keith L. Davey, San Francisco, Calif., as moderator.

"What's New in Chemical Brush Control," by Dr. W. C. Bramble, school of forestry, Pennsylvania State University, University Park, Pa.

"Public Relations and Line Clearing," by John W. Anderson, general superintendent, Philadelphia Electric Co., Philadelphia.

"Tools and Equipment," by Carl H. Asplundh, Asplundh Tree Expert Co., Jenkintown, Pa.

Business session in afternoon.

"Genetics and the Production of Improved Shade Trees," by Dr. Jonathan Wright and Dr. Ernst J. Schreiner, northeastern forest experiment station, U. S. D. A., Upper Darby, Pa.

"Mycorrhizae in Relation to Tree Growth," by Dr. Edward HacsKaylo, agricultural research service, Beltsville, Md.

"Verticillium Wilt: Its Nature and Control," by Dr. Leon Dochinger, central states forest experiment station, U. S. D. A., Columbus, O.

Annual banquet, honoring the past presidents of the National Shade Tree Conference.

#### AUGUST 30

Trip to Longwood Gardens.

Ladies' program.

### OREGON DATES SET

Dates for the summer convention of the Oregon Association of Nurserymen have been announced as September 3 to 5 by Charles H. Potter, Milwaukie, executive secretary. The meetings will be held at the Gearhart hotel, Gearhart, Ore.

CLAUDE A. ETTY has begun the operation of Foliage Farms, Box 611, Apopka, Fla., growing ornamentals for the wholesale trade.

## FOR FALL OR SPRING SHIPMENT

We have a few thousand Red Barberry two-year seedlings. We also have some *Taxus* liners. A list of these will be ready about the early part of August and will be sent upon request.

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New London, Conn.

## ORNAMENTAL EVERGREENS

### Trees and Shrubs

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P. O. Huntington Station, N. Y.

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- Root-Thru Plant Pots

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Christmas Tree Seedlings  
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Splendid stock.

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## TAXUS

Upright, 6 to 14 ft.

Also Other Varieties of *Taxus*.

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BABYLON, L. I., N. Y.

Growers of a general line  
of nursery stock  
Visitors welcome.

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FAIRVIEW, Erie Co., PA.

## HOLLIES

One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 5 ft. Send for list.

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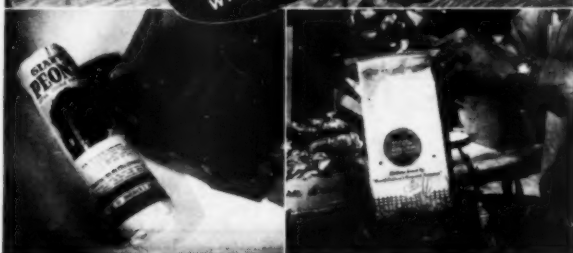
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# What you should know about poly-coated Nursery Wrap



**NURSERY WRAPS OF EVERY TYPE** are produced by Thilco. They include polyethylene coated, asphalted, waxed and foil treated papers in a wide selection of grades and types of waterproofness, flexibility and strength for every requirement. A complete variety of bags in special or stock sizes, weights and duplex types from these and other Thilco papers are also available. They come in regular, ventilation punched or tin-tied styles and all can be Print-Decorated for advertising and identification. We'll be glad to furnish samples and suggestions for your problems.

Three years of experimentation and research at one of America's leading State Colleges of Agriculture has proven the effectiveness of polyethylene coated kraft for protecting nursery stock in shipment. Deciduous (non-evergreen) trees, shrubs and plants prepare themselves for winter by shedding their leaves and arresting the flow of "sap". While in the frozen ground nature protects the roots from drying out. In shipment or storage, Thilco POLY-KRAFT duplicates nature by preventing the passage of moisture from the roots of the plant. Here is how it works:

- ▼ First — A plant that is unable to "breathe" will die. Thilco POLY-KRAFT allows the passage of gases or air, in and out, thus permitting the plant to breathe and live.
- ▼ Second — Even though air and gases pass through the POLY-KRAFT film, moisture is retained within the package. The plants will not dry out.

It is no longer necessary to overwrap the plant's roots with wet sphagnum moss, wood shavings or peat moss to supply moisture. It is better not to use any overwrappings, for wet packaged plants in warm conditions develop soft, unnatural white growths on stems and buds, which often wither after planting. Plant survival is increased with Thilco POLY-KRAFT Nursery Wrap, for it will not support mold growth. Shipping costs are greatly reduced too, for costly "dead weight" packaging materials are entirely eliminated.

## Thilco "Personalized" Wraps

All Thilco Nursery Wraps, whether in sheets, rolls or bags can be furnished Print-Decorated with your name or trademark for just a fraction of a cent per unit more — giving you a plus merchandising and selling advantage in addition to the best in plant protection.



WRITE today for sample kit of various type Thilco Nursery Wraps.

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# THIS BUSINESS OF OURS

*Reflections on the Problems of Nurserymen*

*By E. Sam Hemming*

## TAKING INVENTORY

We have just finished taking an inventory of the nursery stock in our fields. We usually do it around July 1. I suppose most medium and large nurseries take an inventory at least once a year, and probably a good many small nurseries do, too. An inventory is necessary in the proper conduct of any nursery, and perhaps a few comments about our procedure will help at least beginning nurserymen; undoubtedly others in the trade follow even a better method than we do. Not too much has been written about taking an inventory, but it is important.

Inventory is always taken during the hottest week of the year, at least that's what it always seems as we walk up and down the dusty rows! An inventory, to be much good, should be an accurate count rather than an estimate. We count every salable plant. The nursery is divided into blocks, designated on a surveyor's map in the office. This makes it much easier to locate the plants, both mentally and actually. We record each plant variety on an index card, 3x5 inches, and if there are more of the same plant in another block, the figure is put on another card. Some nurseries use a stock book, but cards are easier for indexing a considerable variety of ornamentals. The stock book may be easier for fruit tree nurserymen. On the index card we put the name, in Latin, with the variety, if one. The name is checked with "Standardized Plant Names" in the office. In one corner is stamped the date (July, 1957). In the left-hand corner, usually on the second line, is placed the quantity of plants. In the middle of the card is placed the size or size range, for instance, 2 to 3 feet, 3 to 4 feet and 4 to 5 feet. We used to make a grade count for each size, but we no longer do so. In a strictly wholesale nursery it would be important; in a retail nursery it is of less value. When we receive a wholesale order we always go out and check the stock before confirming.

Comments about the quality of the plants are sometimes noted on the card; for instance, the notation may show the plants were transplanted recently and have not established themselves well enough to be ready

for sale. In making counts and grading plants in July one does well to take into account that certain plants will grow considerably more before fall. This knowledge can only be obtained by experience, but it is of considerable importance.

When the cards are brought to the office, they are arranged in alphabetical order. The next step we follow is to mark on each card the inventory value according to a scale we devised a number of years ago. This step will probably arouse some criticism, for this value is used in our accounting and we pay income tax on it, although the valuation is modest, considerably less than wholesale price. There is less danger in doing this in a retail nursery where a sudden loss will rarely encompass more than one or two varieties. There would be considerable risk in using this system in a fruit tree nursery or in any one where the crop matures

and is sold in one or two years. It is also necessary to have a top valuation in all classes of plants; as soon as a plant overgrows, it is not counted.

There are two advantages in using this system; it gives a good accounting control of labor spent in the production of crops and it is by far the best barometer to tell if you are maintaining your inventory or, better still, increasing it properly.

The cards are then ready for use in making the wholesale and retail catalogs. We do not put wholesale and retail prices on our cards, but rather make up each catalog dummy as we go through the cards alphabetically.

## Other Inventory Uses

The inventory has other uses in the nursery operation. Wholesale nurseries, of necessity, should keep a record of sales on their inventory so that they know when they are getting low in stock. We do not find that necessary, but do compare the data on a card of a certain plant with the record of the previous year; by that we can tell if it is likely that we shall want to order additional items. This step is particularly valuable in keeping track of our supply of the

### A General Line of FRUIT and ORNAMENTAL TREES and PLANTS

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Telephone 2689 GENEVA, N. Y.

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Growers of Quality  
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Ask for list.

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Vuykiana Azaleas, Hardy Forcing Hybrids  
Ghent and Mollis Azaleas  
Hybrid Rhododendrons  
Clematis, Peonies, Astilbe, Dicentra  
Red Maple, Copper Beech, Fancy Shrubs  
140 Cedar St., New York 6, N. Y.

### FRUIT TREES

Dwarf and Standard

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Leading varieties. All sizes, 2 to 8 ft.  
Write for list. Inspection invited.

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Box 158  
GENESEO, N. Y.

### AZALEAS

Selected New Varieties

**GABLE and GLENN DALE (U. S. D. A.)**

**JAMES WELLS NURSERY, INC.**  
P. O. Box 141 RED BANK, N. J.

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Hemlocks, Ferns, Wild Flowers,  
Trees, Shrubs.

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### PACHYSANDRA CUTTINGS

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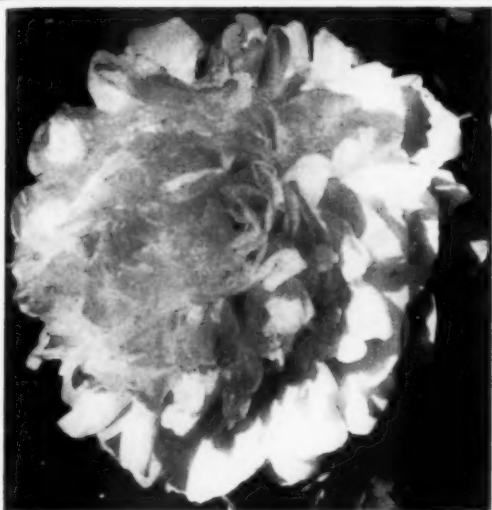
\$9.50 per 1000 plus delivery.

**A. & J. THALER**  
Box 25 Shrub Oak, N. Y.

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Gleditsia triacanthos, Carpinus caroliniana,  
Cercis canadensis, Cornus florida, Phellodendron  
amurense, Platanus acerifolia, Liquidambar styr-  
aciflua, Acer platanoides, Acer rubrum, Fraxi-  
nus americana, Acer ginnala, Ostrya virginiana,  
Koeleria paniculata, Pyrus calleryana, Pinus  
strobus, Pinus nigra, Salix babylonica, Pteris  
japonica and many more.

**HIDDEN VALLEY NURSERY**  
Phone: Millington 7-1158 Gillette, N. J.



# PEONIES

Standard 3 to 5-eye divisions from young plants not over three years old. We do not cut any flowers from our fields, so you can depend upon receiving strong, healthy plants. Numbers in parentheses (8.6) denote ratings of the American Peony Society on the basis of 10 as perfect.

Varieties marked with an asterisk (\*) are recommended as good varieties for cut flowers.

	Per 100
Albert Crousse (8.6), pink, faintly tinted salmon. Late-blooming rose type .....	\$ 35.00
*Baroness Schroeder (9.00), flesh-pink changing to white with creamy center. Midseason ...	45.00
*Duc de Wellington (7.8), bomb type, very large. Sulphur-yellow turning white; early .....	35.00
*Duchesse de Nemours (8.1), sulphur-white fading to pure white, Cup-shaped. Midseason .....	40.00
*Edulis Superba (7.6), very double, very early, medium size. Clear, deep pink blooms; tall plants .....	30.00
*Felix Crousse (8.4), large, bright rose-red. Blooms late midseason .....	40.00
*Festiva Maxima (9.3), very large, globular, double white flowers with flecks of crimson on center petals. Early bloomer, very popular .....	40.00
*Fontenelle, large dark red, blooms in midseason .....	40.00
Francois Ortegat (6.7), medium size, deep crimson with golden stamens; fragrant; midseason.	28.00
Inspecteur Lavergne (8.5), globular, double crimson flower with frilled center petals. Early bloomer .....	50.00
James Kelway (8.7), very large; early midseason. Pale pink becoming almost white. Tall, floriferous .....	50.00
*Karl Rosefield (8.8), large; midseason. Very bright crimson, free-flowering; strong stems, good foliage .....	45.00
Le Cygne (9.1), very large pure white with no shading. Moderately fragrant. Early. Highest-rated peony .....	100.00
Marie Lemoine (8.5), very large; late. Lemon-white with traces of crimson on edges. Fragrant .....	45.00

	Per 100
*Mme. de Verneville (7.9), white with blush-white center; tips flecked crimson; free-flowering; early .....	\$ 35.00
Mme. Emile Galle (8.5), large, double, light rose-pink. Fair rose fragrances. Late, free-flowering .....	50.00
Mme. Jules Dessert (9.4), creamy-white with center tints of buff and pale pink. Late midseason .....	60.00
*Martha Bulloch (9.1), bright old-rose-pink. Faint roseline fragrance. Very large, late .....	75.00
*Mary Brand (8.7), dark, clear crimson with brilliant sheen. Fragrant, midseason, one of the best .....	55.00
Mikado (8.6), Japanese type. Cupped petals of dark crimson. Broad center, stamens buff-yellow stained rose-red. Midseason .....	55.00

	Per 100
*Mons. Jules Elie (9.2), large, light rose-pink. Center silvered light grayish-pink. Fragrant, early .....	\$ 40.00
Myrtle Gentry (9.1), rosy-white suffused with flesh and salmon tints. Fragrant, late midseason .....	75.00
*Sarah Bernhardt (9.0), light rose-pink, petals silvered lighter on tips. Fragrant, late .....	40.00
Therese (9.8), very large; midseason. Translucent old-rose-pink. Splendid form and color .....	75.00
Walter Faxon (9.3), vivid shell-pink. Good stems and foliage, mildly fragrant. Midseason...	50.00
<b>Peonies by Color</b>	
Pink, unnamed .....	25.00
Red, unnamed .....	25.00
White, unnamed .....	25.00

## PACKAGED PEONIES

3-year-old peony roots. Large, strong plants wrapped individually in attractive packages of yellow enameled stock, lined with laminated waterproof paper and capped with moisture-resistant cellophane. Labeled with large pictures printed in full natural colors. Complete planting instructions on each package. Popular named varieties. Approximate shipping weight, 1 lb. per package.

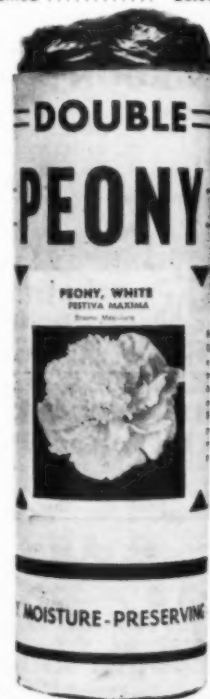
Edulis Superba, old-rose pink
Felix Crousse, brilliant crimson
Festiva Maxima, large early, white
Karl Rosefield, bright crimson.
Mons. Jules Elie, light rose-pink
<b>\$45.00 per 100</b>

Please order in multiples of 10 of a variety.  
Minimum shipment 50 packages.  
Shipments begin about September 15.  
Selling season continues until ground freezes.

# WILLIS NURSERY COMPANY

"Your Wholesale Nurserymen"

OTTAWA, KANSAS





### TREE LIST FOR FALL AND SPRING 1957 - 58

	Per 100	Per 1000	Per 1000 for 10,000 or more
<b>Riga Scotch Pine</b>			
* (2-0), 6 to 10 ins. ....	\$10.00	\$ 36.00	\$35.00
* (2-0), 4 to 8 ins. ....	7.50	26.00	24.00
* (2-0), 3 to 6 ins. ....	6.00	24.00	22.00
(2-0), 2 to 4 ins. ....	5.00	16.00	14.00
(2-1), 3 to 8 ins. ....	10.00	45.00	45.00
<b>*Austrian Pine</b>			
(2-0), 3 to 6 ins. ....	6.00	24.00	22.00
<b>Douglas Fir</b>			
6 to 10 ins., XX ....	15.00	90.00	....
* (2-0), 4 to 8 ins. ....	6.00	28.00	26.00
<b>Colorado Blue Spruce</b>			
* (3-0), 4 to 8 ins. ....	9.00	45.00	42.50
(3-0), 2 to 4 ins. ....	6.00	26.00	24.00
<b>Black Hills Spruce</b>			
* (3-0), 4 to 8 ins. ....	8.00	40.00	37.50
(3-0), 2 to 4 ins. ....	6.00	25.00	23.00
6 to 10 ins., X ....	20.00	135.00	....
<b>White Spruce</b>			
* (3-0), 5 to 10 ins. ....	8.00	45.00	40.00
(3-0), 3 to 5 ins. ....	6.00	25.00	23.00
<b>Norway Spruce</b>			
(3-0), 5 to 10 ins. ....	8.00	45.00	40.00
(3-0), 3 to 5 ins. ....	6.00	25.00	23.00
<b>Mugho Pine</b>			
4 to 6 ins., X ....	25.00	150.00	....
<b>Taxus cuspidata capitata</b>			
from seed, sheared			
8 to 12 ins., XX ....	80.00	....	....
<b>White Birch</b>			
2 to 4 ft., XX ....	75.00	....	....

\*Write for price on 50,000 or more.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order \$25.00. Packing charges included in price of trees.



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Telephones: 123, 48 or 732

### EUONYMUS

<b>Alatus</b>	
2 to 3 ft., B&B.....	\$1.75
3 to 4 ft., B&B.....	2.25
4 to 5 ft., B&B.....	3.50

<b>Compactus</b>	
18 to 24 ins., B&B.....	1.25
24 to 30 ins., B&B.....	1.50
30 to 36 ins., B&B.....	2.25



**WADE & GATTON NURSERIES**

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### DISPERSAL SALE The Auten Peonies

All or part; offered because of my age (75 years). Sensational hybrids, 5 awards from Royal Horticultural Society of England. Other originations, all colors, types and seasons of bloom. Gold medal from American Peony Society. Over 200 kinds, thousands of plants. Our fields are practically free from nematodes. A rare opportunity to enter the peony business as a specialty or as an addition to present nursery line. Auten peonies sell on sight. Write for list and further information. Substantial price reductions for 1957.

**Edward Auten, Jr.**  
Princeville, Ill.

## SUNBURST

(Plant Patent 1313)

The spectacular new Honey  
Locust with the first new  
tree color in decades.

Write us for complete information  
and catalog listing all items.

NURSERYMEN FOR 75 YEARS

THE **COLE** NURSERY CO.  
PAINESVILLE, OHIO

### PERENNIALS

Shrubs and Azaleas

Top-Quality Stock

Write for our new catalog.

Springbrook Gardens, Inc.

Mentor, Ohio

common shrubs, like spiraeas and forsythias.

We also go through the inventory cards to judge what we should propagate more heavily or, contrariwise, propagate a little less or skip a year. On items that take four to six years to reach salable size, this is just a jolly guess.

About the last remark I might make concerning an inventory is that, vital and important as it is in the operation of a nursery, one is stepping on dangerous financial ground if he attempts to borrow on the value indicated by the inventory.

### F. T. C. NURSERY ORDER

The federal trade commission on July 3 approved a consent order prohibiting Lakeland-Deering Nurseries Sales, 16 West 61st street, New York city, from misrepresenting the splendor, size or kind of certain plants it sells.

The commission adopted an initial decision by hearing examiner Frank Hier containing an order agreed to by the company and the commission's bureau of litigation. The order follows a commission complaint issued October 26, 1956, charging the company with making false claims for the Lythrum Morden Gleam plant and the Shasta daisy.

The order contains these prohibitions:

The company must not represent, contrary to fact, that purchasers of its plants will receive more than one variety of "Shasta daisy."

It must not use the term "Chrysanthemum maximum" without disclosing the common name for this plant is "Shasta daisy."

And finally, the company must not make claims for the Lythrum Morden Gleam, such as size, maturity, rate of growth, season or amount of bloom or color, unless these claims hold true for all areas where the plant is advertised. The order provides, however, that the company may represent the physical characteristics of this plant as the company has grown it.

Named in the order are the company's officers: Henry L. Hoffman, Chester Carity, Lillian Zogheb and Allen Lekus.

The agreement is for settlement purposes only and does not constitute an admission by the parties that they have violated the law.

OPENED recently was the Handy Garden Center, Box 685, Rockingham, N. C. The business is being operated by the former owner of the Hillside Florist, Rockingham.



## NEMATODES cause brown spots—stunted plants



Drawing of female nematode, many times normal size.

**For beautiful lawns  
and ornamentals...**

## Stop nematodes with **Nemagon<sup>®</sup>** soil fumigant

**NEMATODES**—microscopic but destructive worms that attack living grass and plant roots—cause stunted plants and bare patches on lawns. You can prevent nematode damage with Nemagon soil fumigant. It does the job effectively, yet safely, without harming the roots of established lawns.

Nemagon soil fumigant is available in easy-to-use liquid or granular form. Apply it directly to the

ground where it becomes a soil-penetrating gas, killing nematodes as it spreads. It protects ornamentals and other decorative plants as well, when used according to label instructions.

Prevent unsightly damage to lawns and ornamentals caused by nematodes. Knock 'em out the sure way . . . with powerful Nemagon soil fumigant. Your local pesticide dealer has it. See him today!

### **SHELL CHEMICAL CORPORATION**

AGRICULTURAL CHEMICAL SALES DIVISION  
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## POPPIES

Now is the time to handle these highly popular and easy-to-grow favorites. The list below contains some of the very finest varieties available today. The plants have had the benefits of a long, moist, cool season and are in prime condition. Ideal for potting and canning. Order early to avoid disappointment.

	Per 10	Per 100
Barr's White, best white today .....	\$3.50	\$30.00
Beauty of Livermore, dark crimson .....	2.75	22.50
Border Beauty, outstanding double, deep crimson .....	3.50	30.00
Carmine, dark, cardinal-red .....	6.50	55.00
Carnival, very unusual, lower half white, upper half red..	6.00	50.00
Curtis Giant Flame, huge red .....	3.50	30.00
Curtis Giant Flesh-Pink, immense blooms .....	3.50	30.00
Curtis Giant Salmon-Pink, large and light .....	3.00	27.50
Curtis Giant Mulberry, bright and different .....	3.50	30.00
Grossfurst, excellent deep crimson .....	2.75	22.50
May Curtis, watermelon-rose, exceptional .....	6.00	50.00
Mrs. Perry, orange-apricot, strong grower .....	2.75	22.50
Perry's White, a favorite .....	3.00	25.00
Raspberry Queen, very different .....	4.00	35.00
Salmon Glow, best large double .....	3.00	25.00
Sweetheart, excellent, new pure pink .....	5.00	40.00
Sturmpackel, fiery-red .....	3.00	25.00
Watermelon, luscious pink .....	3.50	30.00

2% discount allowed for cash with order. Write for our complete list of popular plant material.

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### GINKGO BILOBA

Transplanted Specimens, XXX

	B.R. Each Per 100	B&B Each Per 100
2½ to 3-in. cal., 12 to 15 ft.....	\$17.50	\$25.00
3 to 3½-in. cal., 15 to 18 ft.....	22.00	30.00

### THE WM. A. NATORP CO.

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Visit our nurseries when in Cincinnati

### HEMEROCALLIS Special Offering

	Per 100
Flava .....	\$15.00
Hyperion .....	20.00
J. A. Crawford .....	15.00
Lemona .....	15.00

25 or more plants at 100 rate  
Write for Quantity Quotations

**KINGWOOD NURSERIES**  
MENTOR, O.

**Stock that is hardy.**  
**WHOLESALE**

**SUMMIT NURSERIES**  
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ALLEGAN, MICH.

Seedlings—Transplants  
Finished Stock  
Send for price list.

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Growers of Lining-Out Stock  
Taxus—Pyracantha—Cotoneaster  
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Send for complete list.  
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### TAXUS

is our specialty.  
Bed stock—Liners  
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**EAGLE CREEK NURSERY CO., NEW AUGUSTA, IND.**



**PEONIES • IRISES**  
**DAY LILIES • POPPIES**  
ALL YOUNG-GROWN STOCK  
PROMPT SERVICE

Send for Wholesale Prices.  
Early orders advised.

### WASSENBERG GARDENS

4½ Miles East on U. S. 30  
VAN WERT, OHIO • "The Peony City"

Please mention the American Nurseryman when writing advertisers

## OBITUARY

### Jess J. Souders

Jess J. Souders, 67, who had owned and operated the Suncrest Evergreen Nurseries, at Homer City, Pa., since 1940 and was a member of the American Association of Nurserymen, died June 14 at his home after a long illness. Formerly, for 20 years he had been associated with the Weyerhaeuser Sales Co., national lumber concern.

### H. M. Dudley

H. M. Dudley, recently retired as owner-operator of Dudley Nurseries, Inc., Athens, Ga., died suddenly June 25 at his home near Arnoldsville, Ga. He was 77 years old. One of the early nurserymen and landscape men of the Oglethorpe county area, Mr. Dudley was formerly a member of the American Association of Nurserymen and was active in church and civic affairs in his community. Survivors include two daughters and six sons.

### Mrs. Lizzie Howard Fraser

Mrs. Lizzie Howard Fraser, wife of James B. Fraser, treasurer and general manager of Southern States Nurseries, Inc., Macclenny, Fla., and mother of former State Senator Edwin G. Fraser, a past president of the Florida Nurserymen and Growers Association, died at her home June 16, at the age of 79. She had been preparing to attend the annual Fraser reunion at the home of Warren Fraser.

Mrs. Fraser was a native of Baker county, Florida, and had been prominently identified with religious activities in the county as a member of the First Methodist church, Macclenny. Besides her husband, survivors include three sons, James B., Edwin G. and H. Howard Fraser; five daughters, and a brother.

### Mrs. George L. Taber

Mrs. George L. Taber, Sr., vice-president of the Glen St. Mary Nurseries Co., died at her home at Glen St. Mary, Fla., June 29. Mrs. Taber was born at Cheeryfield, Me., March 11, 1875, and spent her early life there, moving to Boston, Mass., to go into the nursery profession. She went as a bride to the home of George Lindley Taber, Sr., 52 years ago. From 1930 to the time of her death she had served as vice-president of the nursery firm and during most of those years she was active in the business. She was a member of the Good

# BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for fall and spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

## AMOENA

8 ins.	\$.075
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

## CORAL BELLS

6 ins.	.50
8 ins.	.75
10 ins.	1.00

## HINODEGIRI

Our Hinos are very dark red.

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

## ORANGE BEAUTY KURUME

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25

## HINO-CRIMSON

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

## SNOW

6 ins.	\$0.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25

## LEDIFOLIA ALBA

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

## MAXWELL

8 ins.	.75
10 ins.	1.00

## KAEMPFERI

Hardest of all azaleas; well-budded, heavy.

## OTHELLO, SALMON BEAUTY, FEDORA and CARMEN are all the same price.

8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

We also have limited quantities of the following varieties: Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery and Polaris.

Rooted cuttings of all varieties ready November 1. \$50.00 per 1000 except—Rose Bud, Rose Greeley, Addy Wery, Louise Gable, \$75.00 per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

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# BAIER LUSTGARTEN

Jericho Turnpike, MIDDLE ISLAND, L. I., N. Y.

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## Hardy Northern-Grown Stock at WHOLESALE

### JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

Shepherd church at Jacksonville and attended the St. James Episcopal mission at Macclenny.

Surviving are a son, George Lindley Taber, Jr., who since 1945 has been president of the Glen St. Mary Nurseries Co.; a daughter-in-law, Mrs. George L. Taber, Jr., and two grandchildren.

#### Grover C. Scott

Grover C. Scott, 70, who had carried on a mail-order nursery business at Paradise, Pa., for 30 years, died in June, at his home. The widow, Mary Hess Scott; three daughters, and one son survive.

#### MISSOURI SHORT COURSE

[Concluded from page 16]

port of the nominating committee, and the election, as given earlier, followed. The meeting was then turned over to the incoming president, Robert Eggers.

#### New Business

New business concerned forming a committee to study possible reduction in dues and an approval for a gift of \$250 to the university. This gift is to be used as partial support for a visit and 6-week appointment to the staff of Dr. A. F. Posnette, of the East Malling research station in England. Dr. Posnette is a well-known research worker on plant virus diseases and should be helpful in accelerating pathological research.

Committeemen for next year were appointed by the president, as follows:

Legislative—Orville Moffet, chairman; Joseph Weston; Dale Wild, and Hugh Steavenson. "Plant Missouri"—Joseph Weston, chairman; Harry O. Balthasar; Paul Stark, Jr.; Joseph Houlihan, Jr.; Joseph Houlihan, Sr.; Dale Wild; Robert Dascher; Walter Krummel, and Ben Asjes. University—Royer Wilkerson, chairman; Carl Giebel, and Hugh Steavenson. Membership—Chris Munz, chairman; Ben Asjes; F. J. Naberthier; Ralph Shugert and Ellery Bennett. Executive—Robert Eggers, chairman; Orville Moffett, and Ellery Bennett.

## PEONIES FOR EARLY FALL PLANTING

For Cut Flowers

For Garden and Landscape Plantings

For Show Flowers

or Just for Color

Peonies are a specialty with us, and we are growing them in quantity in a wide assortment of varieties, for a wide assortment of purposes. We will be digging in September from an unusually good block of 3-year-olds. Write for our price list, which will offer close to 250 varieties.

Wholesale Growers of a General Assortment of  
Ornamentals for the Best Landscape Plantings.

### BRYANT'S NURSERIES

PRINCETON

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## 25 MILLION SEEDLINGS

of

Scotch, Austrian and Red Pine

McCURDY BROS. NURSERIES

MANTON, MICH.

## GERARD K. KLYN, INC.

Mentor, Ohio

Wholesale Rose Growers  
and Nurserymen

35 years of honest, reliable service. You are invited to visit us this summer. You will enjoy it.

## REMEMBER SHERMAN'S for . . .

Alpine Currant  
Hydrangea P. G.  
French Lilacs  
Snowball  
Shade Trees  
Evergreens  
Phlox  
Peonies  
Plum Seedlings  
Lining-out Stock

Let us quote you on your requirements.

SHERMAN NURSERY CO.  
CHARLES CITY, IA.

## COMPLETE ASSORTMENT OF

Evergreens, Fruit Trees, Shade  
Trees, Roses and Lining-out Stock.

Write for complete list.

ONARGA NURSERY CO.  
ONARGA, ILL.

Peach  
Hydrangea P. G.  
Hydrangea P. G. (Tree Form)  
Ornamental Trees  
Grapevines, 1-yr. and 2-yr.

Thorne Brewster

WILLOWBEND NURSERY  
PERRY, O.



# NEPCO LAKE NURSERY

Growers of Quality Evergreen Seedlings  
Transplants and Lining-out Stock

*Write for Fall Price List*

A. A. N. Badge No. 1074



**NEKOOSA-EDWARDS PAPER CO.**  
PORT EDWARDS, WIS.      PHONE: 4037

## SOUTHWEST MEETING

[Concluded from page 8]

establishment of and compliance with set standards and practices.

After the separate election sessions, the two associations held their final joint business meeting and voted approval of an innovation — the granting of four assistance scholarships to college students majoring in horticulture.

These scholarships are to be financed from the Dan Carpenter memorial fund established by the two organizations in 1956, in memory of the late Dan Carpenter, of Roswell, after his untimely death in a plane crash. He had long been a leader in the New Mexico Association of Nurserymen and was instrumental in effecting adoption of the plan for joint conventions in this region.

Two of the \$50 assistance scholarships are to be awarded to horticulture students at Texas Technological College, Lubbock, with similar financial aid going to two like students at New Mexico A. and M. College, Las Cruces.

The 1958 joint convention of the two nurserymen's groups will be held at El Paso next June, while the 1959 meeting will be held at Roswell, N. M.

## JAPANESE IRIS

(Iris kaempferi)

	Per 100
Betty F. Holmes, double white...	\$30.00
Blue Bird, single, rich blue.....	15.00
Eleanor Parry, double, red-purple.	15.00
Gold Bound, double, white .....	30.00
K. Havemeyer, double, lavender-blue .....	20.00
Mahogany, double, mahogany-red.	18.00
Purple and Gold, double, purple..	.....
Seacrest, double, white, lavender flush .....	20.00

25 or more plants at 100 rate.

Write for complete trade list.

**KINGWOOD NURSERIES**

Mentor, O.

Direct from Grower to You

BELGIUM-GROWN

**T. R. BEGONIAS and GLOXINIAS**

Finest-Quality

Arthur van Speybroeck

La Pinte-lez-Gand (Belgium)

Sole Representative:

**VERONA GARDENS**

Rt. 5 Battle Creek, Mich.

## ROSES

Quality and Service

**MENTOR  
ROSE GROWERS, INC.**  
MENTOR, O.

New 1957-58 listing now available

Write for yours.

## GARDEN MUMS

Rooted Cuttings

**CUNNINGHAM GARDENS, INC.**  
Waldron, Ind.

Over 100 Years' Nursery Experience

**ILGENFRITZ  
NURSERIES, Inc.**

The Monroe Nursery

**MONROE, MICHIGAN**

GET THE BEST

BUY ILGENFRITZ

## BEATRIX FARRAND

Forsythia

Brand-new giant-flowered forsythia developed by the Arnold Arboretum.  
Pot liners, \$20.00 per 100;  
\$180.00 per 1000.

**BEARDSLEE NURSERY PERRY, O.**



# MUSKY, HEALTHY HOLLY!

CONTAINER-GROWN BY  TO BRING YOU FASTER PROFITS!

## ILEX altacalarensis wilsoni

Ideal as a tree or large shrub. The large, thick, glossy leaves and bright red berries make it one of the showiest evergreen hollies. Vigorous rigid growth—always looks neat.

In 2 1/4" pots \$35.00 per 100—1-gallon \$.75 ea.—5-gallon \$2.50



## ILEX cornuta rotunda

A very superior compact dwarf growing holly with dense habit of growth. Outstanding for use in planter boxes and foreground planting in shady areas. Glossy dark green leaves similar to Chinese Holly. Evergreen.

In 2 1/4" pots \$20.00 per 100—1-gallon \$.60 ea.—5-gallon \$2.25 ea.



## ILEX aquiperni Brilliant

Outstanding for its large quantities of brilliant red berries. Has neat, long heavily serrated leaves. One of the most eye-catching hollies. Self-fertile, and upright growth.

In 2 1/4" pots \$30.00 per 100—1-gallon \$.75 ea.—5-gallon \$2.50



**ORDER NOW FOR IMMEDIATE OR FALL DELIVERY!**

See your MN catalog for complete list of all pot and container-grown holly available. Same varieties are limited—so order as soon as possible.



# MONROVIA NURSERY Co.

P.O. BOX Q, AZUSA, CALIFORNIA

# PLANT NOTES HERE AND THERE

By C. W. Wood

## A Yellow Sweet Violet

The passing of another sweet violet season reminds me that the yellow-flowered variety has had a hard time establishing itself in the affections of American gardeners and continues to be quite unknown to most of them. That is not as it should be, of course, and I often wonder why it is a fact. If gardeners do not know that a kind with yellow flowers exists, then the neighborhood growers of the country have an obligation and a privilege in the matter. I seldom mentioned the plant in this column, because it was not readily available in nurseries, being restricted to a few violet fans; now that I have found a commercial source, however, it is probably safe to mention it.

The plant has acquired several names, including *Viola vilmoriniana*, as it is called in the catalog that recently came to my attention. It may also be called *V. odorata sulphurea* or *V. o. sulfurea*. I believe the current preference among botanists is to use the last-named term. Be that as it may, the plant is unique among the sweet violets, so far as I know, in the way of color, being sulphur yellow or pale apricot, according to one's color sense. It is also among the sweetest of the sweet and a contented, happy plant under the most adverse conditions. It is so accommodating under neglect that it even self-sows to some degree.

## Mimulus Luteus

A reader of this column writes as follows: "I am confused about *Mimulus luteus*. Can you straighten me out on what plants the name covers?"

Friend, you are no more confused than I am, and I have little hope that I can help you to a definite conclusion. I was quite contented with the name and the plants which I had received under that name from several places in the Canadian Rockies until I read in "Hortus" that *M. luteus* is confined to Chile. That was years ago, and I have pursued the matter since without marked success. My conclusions, based on the Canadian material, may be stated as follows: *M. luteus* varies not a little in height according to its different habitats and the soil in which it is grown, ranging from one to three feet, always with large yellow flow-

ers, which are usually spotted reddish purple in what was sent me as the type. However, there were some variations in color, especially in one collection from British Columbia, and plants grown from commercial sources show an amazing variety of shades and combinations and perhaps a duplex now and then. If one wants an exciting adventure, he might try a packet of *M. luteus* seeds from a reliable seedsman.

## Sweet-Scented Evening Primrose

While going over some old notes recently, I came upon one on *Oenothera odorata* which awoke pleasant memories and the desire to tell American Nurseryman readers a little about the plant. In my trials, it impressed me as being a fine garden plant, worthy of the consideration of the neighborhood nurseryman who is equipped to handle it as an annual. It is said to be a biennial or perhaps a short-lived perennial in its native South America, but in the north it

must be used as an annual, a role which it readily assumes.

It is said to grow four feet in height in good soil where the season is long; here in northern Michigan it did not do that well, seldom exceeding 30 inches and more often being two feet or less. But it is not always the most stately plants that are the most pleasing. The traits that make this plant desirable to me are the large rich yellow flowers of the type, the even lovelier sulphur-yellow blooms of variety *sulphurea* and, especially, their delightful fragrance from the time the flowers open in early evening until they close before noon the next day.

The nomenclature of evening primroses is so badly confused in gardens that one is never sure of a name. *O. odorata* is no exception to the rule. In addition to the name used here, it may also be found under the labels of *consolidata*, *longiflora*, *prostrata*, *sauveolens*, *undulata* and perhaps others. If an evening prim-

## WE'VE TRIED 'EM ALL - -

And for northern areas no Evergreen  
*Euonymus* can hold a candle to

## UPRIGHT EUONYMUS RADICANS

(Sarcocoe)

This baby holds its foliage when sharp winter weather drops the leaves of types like *patens*, *erectus*, *carrierei* and many other so-called evergreen types. Foliage and habit a lot like *vegetus*, but the foliage color is much darker—almost a black-green—and the plant is much more upright in growth. A superb broad-leaved evergreen shrub—compact, upright, rapid in growth—and hardy in all sections of the country!

Normally grows 3½ to 4 ft. Unusually good for hedging as plant failures are rare indeed. Though our plants are grown in full sun, it thrives in dense shade.

You will not find a better stock of plants **anywhere** than ours.

	Each per 10	Each per 100	Each per 1000
Heavy. 4 to 6 ins., liner. 1-yr. ....	\$0.22	\$0.18	
Field-grown,			
12 to 15 ins., B.R. \$1.00	.90	.80	
15 to 18 ins., B.R. 1.25	1.15	1.00	
12 to 15 ins., B&B 1.50	1.25	...	
15 to 18 ins., B&B 1.75	1.50	...	
18 to 24 ins., B&B 2.45	2.25	...	

## FORREST KEELING NURSERY

Hugh Steavenson, Pres.

ELSBERRY, MO.

## QUALITY STOCK

<b>Andorra Juniper</b> Outdoor plants in full sun. 6 to 10 ins. ....	Each \$0.06
<b>Von Ehron Juniper</b> Outdoor plants in full sun. 8 to 10 ins. ....	.06
<b>Spreading Japanese Yew</b> 6 to 8-in. bands. ....	.20
<b>Burk Juniper, upright</b> Outdoor plants in full sun. 6 to 10 ins., bare-root. ....	.14
<b>Forsythia Lynwood Gold</b> Outdoor plants in full sun. 6 to 10 ins. ....	.06
<b>Forsythia Spring Glory</b> Outdoor plants in full sun. 6 to 10 ins. ....	.04
<b>Euonymus coloratus</b> Outdoor plants in full sun. 8 to 10 ins. ....	.03½
<b>Euonymus patens</b> Small or large-leaved. Outdoor plants in full sun. 8 to 10 ins. ....	.04
<b>Pyracantha lalandi</b> Outdoor plants in full sun. 5 to 6 ins. ....	.05
<b>Teucrium chamaedrys</b> .....	.04

See classified ad under lining-out stock for other items. Less than 300, total order, add two cents per plant.

## McININCH GREENHOUSES

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# W BLUE LABEL DAHLIAS W

**AGAIN** We offer the largest and most complete line of standard garden, cut flower and exhibition dahlias in the world.

## • Assorted Dahlias for Advertising and Bargain Offers.

- Dahlias by Color for Jobbers' Trade.
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- Wrapped Dahlias for Counter Trade.
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Make your reservation now for 1958 delivery. No deposit required. Our new Bulletin, DIG & DUNG, with complete list of varieties and net growers' prices will be mailed between August 1 and August 15. If you have not received your copy by the latter date, write for it at once.

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## WAYLAND DAHLIA GARDENS Box A. N. WAYLAND, MICH.

rose purchased under any of these names has a thick, woody stem about six inches long, clothed in pointed, narrow leaves of a pale green color, and if from that woody base there spring long (to two feet or more), freely branched stems, it is no doubt *Oenothera odorata*. Whether perennial, biennial or annual, it should be a profitable item for the neighborhood grower with enterprising customers.

### Primula Pubescens

*Primula pubescens* covers so much territory that it would take an entire issue of the American Nurseryman to treat even the small part of the subject that it known to me; to cover all that has been said about it would take a book; so I shall restrict these remarks to *P. p. alba*, the form on which a Massachusetts correspondent was especially anxious for information.

First, however, to demonstrate how inclusive the name is, I should like to quote Clarence Elliott, an English alpine authority: "*P. pubescens* is the name which botanists have decided shall cover all the hybrids which have been raised between *P. auricula* and *P. hirsuta*, and *P. auricula* and *P. viscosa*, their heirs, offspring, descendants and issue whatsoever." That covers vast

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**Taxus cuspidata**, up to 18 to 24 ins.  
**Taxus hicksi**, up to 24 to 30 ins.  
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**Norway Maple**, up to 3 ins.  
**Soft Maple**, up to 1½ ins.  
**Sugar Maple**, up to 1½ ins.  
**Pin Oak**, up to 2½ ins.  
**Sweet Gum**, up to 2 ins.  
**Cotoneaster divaricata**, up to 4 to 5 ft.  
**Honeysuckle Bush**, up to 4 to 5 ft.  
**Rhus cotinus**, up to 6 to 7 ft.  
**Fruit trees**, all kinds  
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numbers of plants, as can readily be seen by consulting an English nursery list with its long columns of named varieties.

If my Massachusetts correspondent enjoys lasting success with the white form of *P. pubescens* (*P. nivalis* of gardens—a name that is patently false, for *P. nivalis* of botanists is an Asiatic species), he will have accomplished more than any other American gardener has, except in the Pacific northwest, so far as I have been able to find out. Certainly, he will do better than I have ever done with the plant in the open. It is said to grow like a weed in Scotland, while it is counted one of the difficult subjects in the south of England. There they coddle it in a "cool half-shaded pocket of sound, sweet loam, enriched with leaf mold and broken cow dung."

#### Sweet William

When he reaches sweet william, *Dianthus barbatus*, the curious gardener has a subject for long speculation, for he is not likely to learn its original source nor whether it is a biennial or a perennial. If he goes far enough, he will find that it appeared on the garden scene early, Gerard mentioning it as being well known in London gardens in 1597, and he will also see that modern authors say, as "Hortus" does, that it is found from the Pyrenees to China. Be that as it may, the plant has long since varied into many forms and has entered into a large number of useful hybrids. It would be futile to mention many of the named forms and hybrids, because few are available in this country. But it might be practical to pay a little attention to two or three kinds that are capable of repaying many times the work needed to keep them going.

Although I have not lately seen *D. barbatus magnificus* in nurseries, it must still be cherished in old gardens, where its double, crimson flowers are loved for their July and August cheerfulness. It will usually give some color during late spring and early autumn, but it is during the two summer months mentioned that it is at its floriferous best. This is probably a true form of sweet william, without benefit of other blood, but of that one cannot be sure, for its origin is lost in the mists of time.

Napoleon III, a spectacular, double, crimson-flowered form, which owns sweet william as one of its parents, was long popular in European gardens. I have done my best to help popularize it during the past half century whenever a nurseryman in

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**Capitata**, specimen, up to 4½ ft.  
**Compacta**, specimen, up to 3 ft.  
**Browni**, 15 to 24 ins.  
**Andersoni**, 15 to 24 ins.  
**Intermedia**, 15 to 24 ins.

Good supply of Juniper, *Arbovitae*, Pine, *Euonymus* and other broad-leaved evergreens.

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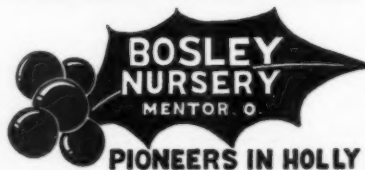
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the United States has had the courage to work up a stock, but apparently Napoleon is too weak to interest American gardeners. In any event, it invariably flowers itself to death. The tendency to bloom themselves into an early grave seems also to be a characteristic of the plants known in nurseries as *D. latifolius* forms, which are also descendants of our sweet william. These include the pure pink Beatrice, one foot tall or higher, blooming from June into September, and Silver Mine, of about the same stature, flowering over the same long period. They are both good garden plants and suitable for cutting, but impermanent.

Until recently, the dwarf sweet williams had remained constant in their height of about 18 inches since their introduction to English gardens in 1573, and probably for centuries before that in the wild; then there appeared a strain of dwarfs with a height of three to five inches. Since the introduction of this dwarf form, there has been much improvement in the colors; now one finds few or none of the dirty pink shades of former days. The best of the present strains that I have seen is Midget mixed or Indian Carpet, containing a good range of colors, including many selfs, though a majority show the so-called auricula eye.

This is one of the best bedding and edging plants that I have grown. It is low, rounded and completely covered with flowers of pleasing shades for a long time in summer. Thoughtful trials will show many ways in which it can well serve the nurseryman.

#### Hardy Agave

A Nebraska reader asks for an opinion on the hardy agave, *Manfreda virginica*, for the eastern part of his state. If the weather charts that I have consulted are correct, the climate of that area is too rigorous for *M. virginica* to thrive there. The plant would probably live for a time, as it did here in northern Michigan, but get so discouraged struggling through the winters that it would grow indifferently and finally give up in disgust. The books say that it will furnish large green rosettes, which simulate the aloes of window gardens, and produce in summer a loose, wand-like raceme of greenish-yellow, delicately fragrant flowers on stems to five feet in height. Apparently because it had to fight so desperately for its life in the cold winters, it never grew more than half that tall here, and I suspect it would require very rich soil to flourish in warm climates. It is easily

## FALL SEASON PLANTING REMINDERS

(We hope you find them helpful)

1. Visit nurseries in your buying area.
2. Look over stock you normally use in each nursery.
3. Check your own supply on hand at home.
4. Buy what you need, either when you visit or a few days later.
5. Schedule delivery of your early loads of B&B and container-grown stock.
6. Plan your first major sales effort for fall.

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Gudrun .....	16c	12c
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Wabash .....	15c	10c
War Eagle .....	12c	10c
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#### Thymus Nitidus

Although most thymes are valuable property in the hands of the neighborhood grower, the scarcer ones are especially profitable. Of these *Thymus nitidus* would come near the head of the list in sections where it is hardy. Just how hardy it is, I cannot say; certainly, it cannot stand the winter here in northern Michigan at latitude 45 degrees. The plant comes from Sicily—from around Mount Etna, I believe—and may be too tender to live outdoors north of the Ohio river. Where it is hardy, however, it would make a lovely wall ornament or edging plant for well-drained spots in full sun, protected from winter's cold blasts. It is a subshrub, forming neat, fragrant bushes, four to six inches tall (as it grew here in pots in a protected frame), though it is said to grow up to 10 inches or a foot in height in good soil where it does not freeze back. For a month or more in late spring it smothers itself under trusses of lilac-colored flowers. It is easily grown from cuttings.

#### The Musk Hyacinth

It often happens that a plant of limited charm to the eye possesses a delightful odor. *Muscari moschatum*, the musk hyacinth, for example, offers little beauty in its purplish flowers, but its musky scent—one of the rarest odors in the vegetable kingdom—is highly enjoyable to most gardeners. Some plants have to be seen to be sold; this one has to be smelled to be sold.

It is a hardy bulb that I have long known and admired, and although I should not care to plant it to the exclusion of other grape hyacinths, I should dislike to pass a spring in which its fragrance did not greet me from its sunny corner. I believe that many other gardeners would feel the same way about it were they to come into direct contact with the plant.

### ARBORISTS IN ROAD PLAN

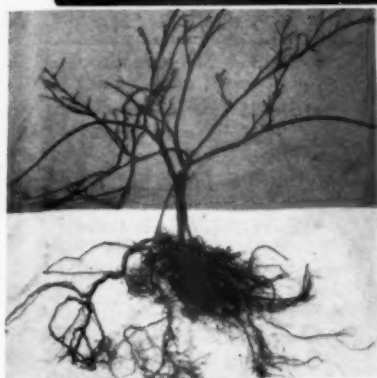
[Continued from page 13]

of 16 feet to remove dead and undesirable limbs will be included in selective thinning.

Opening and creating scenic views from the highway or from roadside rest areas or overlooks is conducive to greater enjoyment and relaxation for motorists and contributes to more complete use of the highway facility. Here the arborist, with his training and experience, could give advice on which of the existing trees are valuable and unusual and should remain



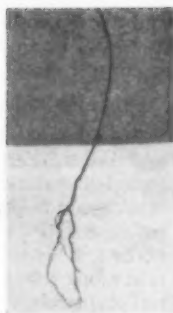
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and which ones are undesirable and would constitute a maintenance problem.

Trimming of existing trees will include the repair of all injuries or wounds on existing trees as indicated on the plans or directed by the engineer.

All wounds over one inch in diameter will be painted with tree paint. The bark around all tree wounds and injuries will be traced and treated in accordance with approved arboricultural practices. All tree trimming work done by contract will be supervised by a certified tree expert employed by the contractor.

### Much Trimming Needed

With the thousands of miles of new highways there will be many trees that will require trimming. Special attention will be given those near the edge of the shoulder, in the median strip of the highway and in roadside rest areas, in order to remove hazardous limbs and to preserve valuable roadside trees. Long-lived species usually will be given priority for special tree care.

Many existing individual trees will have to be removed after clearing of the site, selective thinning and cutting have been completed. Removals are made necessary by

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storm damage, drought, change in moisture conditions and disease.

This work requires the careful topping of the individual trees and removal of the stumps in open areas. In wooded areas stumps may be left and treated with an herbicide (2,4-D or 2,4,5-T) immediately after cutting to control sprout growth.

### Should Include Maintenance

Maintenance spraying of diseased and insect-infested trees should be included in the construction contract if such conditions are found to exist before construction is begun on new highways. This is especially important along suburban and urban arterial expressways. Feeding of large shade trees should be part of the landscape work where valuable specimen trees are found growing close to the highway, or in the vicinity of roadside rest areas, scenic turnouts, or large interchanges where traffic reduces speed.

All of these important landscape items of tree work indicate the many opportunities for arborists to take an active part in this \$33,000,000,000 highway program. It may be in an advisory capacity to some state highway department or engineering consulting firm or as a contractor doing the actual work.

Highway roadside trees are an asset. They help to preserve the natural countryside, relieve monotony by providing a vertical accent in the view and consequently help prevent driver hypnosis. Trees provide shelter from the heat of the sun in the hot summer months. They delineate the curves of the road ahead for the driver, especially at night. Trees provide attractive green buffers against the noise, dust and fumes of traffic, especially in suburban and urban areas. They help to make travel by automobile over the highway more pleasing, comfortable, relaxing and consequently safer.

### HAVNES ADDS NURSERY

L. E. Havnes, Brainerd, Minn., who had operated the Havnes Landscape Co. since 1922, reports the recent purchase of the land and stock of the Siemer Nursery, Brainerd, and change of his firm's name to the Havnes Landscape Nursery.

The recent purchase consisted of about 10 acres of land, all of which has been planted to nursery stock, principally evergreens and shade trees. Stock for the firm's landscape work will be grown mainly, but some stock will be sold at wholesale. Landscape work is carried on within a 100-mile radius of Brainerd.

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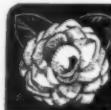
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## Awards Made at Rose Society Meet

Nearly 500 amateur rose enthusiasts were saluted by the Milwaukee, Wis., press, in radio and television programs and by department store exhibits during the American Rose Society's annual spring convention held at the Schroeder hotel, June 20 to 22.

Martin J. Martin, San Francisco, Calif., captured the society's highly prized Nicholson perpetual challenge bowl at the national rose show held in the Milwaukee Auditorium June 20. Mrs. Lloyd Riebow, Milwaukee, walked off with the second-highest award, the J. Horace McFarland memorial Great Lakes district award.

Rosarians from other lands extended greetings to their American friends through two of the world's leading nurserymen: Charles W. Gregory, managing director of C. Gregory & Son Nurseries, Nottingham, England, and Jean Gaujard, owner of the Pernet-Ducher Nursery, near Lyon, France. At the closing banquet, Mr. Gaujard presented a silk shawl to society president, Fred W. Walters, La Canada, Calif., from the mayor of Lyon, on behalf of the city, "in recognition of the splendid services rendered by the American Rose Society to all the citizens of the rose world."

### Give Merit Certificates

President Walters presented merit certificates for three outstanding roses of recent years. Arthur R. Boerner, president of the host Milwaukee Rose Society, accepted a gold and silver certificate for Vogue and Garnette, respectively, on behalf of his brother, E. S. Boerner, Newark, N. Y., who originated Vogue, and Jackson & Perkins Co., Newark, N. Y., which introduced Garnette in this country. Louis F. Tonsor, North Hollywood, Calif., vice-president of the Pacific Rose Society, accepted a gold certificate for Chrysler Imperial on behalf of Germain's, Los Angeles, Calif.

Milwaukee's Whitnall park and numerous private rose gardens were in full glory, to the delight of the conventioners.

Meeting June 19, the society's board of directors approved the following nominations for 1958 officers: President, John R. Patterson, Moline, Ill.; vice-president, Joseph J. Klima, University Heights, O., and Mrs. Nat Schoen, Vancouver, Wash.; treasurer, M. E. Noggle, Circleville, O.; directors at large, Oscar J. Chase, Dallas, Tex.; Dr. O. M. Harper, Clen-

# HOLLY

Clarendon Gardens Nursery will shortly advertise a complete list of rooted cuttings and lining-out stock available for the first time to the trade.

We have over 320 named varieties of holly and from many of these we will make cuttings to provide the widest possible selection for our customers.

If you are interested in holly, write us telling what you particularly want including quantities. Our prices will be competitive.

As soon as we finish our inventory, we will gladly send you a list of our available hollies and quantities.

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Rhododendron, Mountain Laurel, Leucothoe, Balsam Fir, White Pine and Hemlock, collected and nursery-grown in limited amount for spring, 1958. Seedlings, B&B, clumps and cutback stock (pans).

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**Specializing in B&B Evergreens**  
**BROAD-LEAVED and CONIFERS**

Catalog on Request.

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P. O. Box H GREENSBORO, N. C.

### FOR FALL SHIPMENT

	Per 100
<b>Kerria japonica</b> (Yellow Kerria)	
12 to 18 ins., T., br.	\$ 15.00
18 to 24 ins., T., br.	20.00
2 to 3 ft., T., br.	30.00
3 to 4 ft., T., br.	40.00
Liners	10.00

	Per 1000
<b>Cornus florida</b> (White Dogwood)	
6 to 12 ins., 1-yr., S.	\$ 25.00
12 to 18 ins., 1-yr., S.	35.00
Understock grafting grade	50.00

	Per 100
<b>Stewartia pentagyna</b> (Mountain Stewartia)	
3 to 4 ft., bush form	\$ 90.00
3 to 4 ft., tree form	75.00
4 to 6 ft., bush form	125.00
4 to 6 ft., tree form	100.00

**O. H. PERRY NURSERY CO.**  
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Beautiful shade, productive too! Prolific varieties. Sizes 1½ to 12 feet. In attractive packages or bare roots. Get stock list and prices.

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Good Assortment  
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THE TANKARD NURSERIES  
EXMORE, VA.

## NORTHERN-GROWN FRUIT TREES

DWARF and STANDARD

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DANSVILLE, N. Y.

## GRAPE CUTTINGS

Fall and Winter  
1937 Prices—State Inspected

Per 1000  
Concord ..... \$7.50  
Niagara ..... 8.50  
Delaware ..... 8.50

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Paw Paw, Mich.

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Wholesale Growers of Dependable  
Fruit and Flowering Trees

Write for latest price list.

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McMINNVILLE, TENN.

denin, W. Va.; Herbert C. Moss, Zenith, Wash.; Mrs. C. Gregg Shockly, Columbia, S. C.; J. Preston Swecker, Washington, D. C., and Dr. Cynthia Wescott, Glen Ridge, N. J. The election will be held in August.

Glen Viehmeyer, of the University of Nebraska's North Platte experiment station, told of his project of crossing hybrid teas and floribundas with hardy native roses to produce high-quality winter-hardy remonant roses. It seems probable that the first introductions will be made about 1960, he said.

Dr. Earl K. Wade, University of Wisconsin extension plant pathologist, recommended an all-purpose rose spray of 65 per cent zineb (one tablespoon of dithane Z-78 or two tablespoons of parzate or fungicide A); three-fourths tablespoon of karathane (Mildex); two tablespoons of wettable 50 per cent DDT or three tablespoons of wettable 50 per cent methoxychlor, and two tablespoons of wettable 25 per cent malathion or one teaspoon of liquid 50 per cent malathion. He also recommended a dust of 5 to 7 per cent zineb: 75 per cent sulphur or 1 per cent karathane (Mildex), and 50 per cent DDT or methoxychlor. Apply 4 per cent malathion or spray separately to control insects. Generally, sprays are more effective than dusts, but in either case one should be sure to cover all plant surfaces every seven to 10 days, he said.

### Local Rose Problems Told

Dr. and Mrs. Leo J. Cogan, Milwaukee, described the problems of rose culture in that area. To offset the severe winters, local rosarians put homemade collapsible houses over the rosebushes in the fall, with excellent results. Using this system, one does not have to hill or strip off old foliage and one can leave the mulch alone and prune any time he wishes. Plants are kept dormant and protected from frost and moisture evaporation, Dr. Cogan stated.

Other convention highlights were talks on floribundas, by E. S. Boerner; judging old-fashioned roses, by Richard Thomson, Wynnewood, Pa., and a panel discussion of pruning practices.

Mrs. May T. Watts, staff naturalist for the Morton Arboretum, Lisle, Ill., closed the convention with an exciting satire on "Our Changing Gardens," based on her new book, "Reading the Landscape."

Society members will meet next at the Chamberlin hotel, Old Point Comfort, Va., October 10 to 12 for their 58th annual convention and national rose show.

## Better Liners of the Better Kinds

BERBERIS Crimson Pygmy  
CAMELLIA SASANQUA  
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FORSYTHIA Lynwood Gold  
HYPERICUM Hidecote  
MAPLE, Crimson King

Write for Complete Price List.  
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Per bu.

1 to 5 bu. ....	\$3.85
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10 to 30 bu. ....	3.60
30 to 100 bu. ....	3.45

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Evergreens, Trees

Deciduous Shrubs, Roses

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Azaleas, Camellias  
and Magnolias  
our  
specialties.

Semmes, Ala.





# Kentuckians Entertained by Hoosiers

By Howard G. Tilson

June 25 and 26 about 60 Kentucky nurserymen, some with their families, gathered at the Terrace Plaza motel, Henderson, Ky., for the usual summer outing and socializing. The Terrace Plaza was chosen by the local arrangements committee because of its proximity to Audubon park and Evansville and Newburgh, Ind., where Hoosier nurseryman members had expressed a wish to entertain the group on this occasion. And entertain they did.

A few of the Kentucky group arrived Sunday, June 23, in order to have more time to visit nurseries in the area and to enjoy the swimming at the lake in Audubon park.

One of the features of the gathering was a visit on Tuesday afternoon and Wednesday morning to the park and its museum. The Audubon Society has gathered for display a large collection of the paintings and writings of the famous naturalist, together with many other items related to early settlers in the Ohio valley.

Tuesday evening, the group gathered at Homestead Inn, near Tillman's Nursery garden store, Newburgh, Ind., for a feast, country style.

## License Law

Wednesday morning, after a dip in the lake, the party gathered at Tillman's Nursery garden store. Refreshments were ready and freely indulged in. For an hour there was a discussion of the possibilities of a licensing law to cover all persons rendering any type of landscape or horticultural service, as well as those selling plants or plant materials. The basic principle of such a law is to require that persons show qualifications to render adequate service, so that the public will not be mistreated and the profession will not be damaged. Some progress was made, but many problems were brought to light.

The luncheon, provided by Tillman's Nursery, Newburgh, Ind., and Sterneman's Nursery, Evansville, Ind., was billed in the program as "barbecued buzzard," but in reality it was a tasty meal of barbecued chicken served generously by the hospitable hosts.

## FALL, 1957, SPECIALS

Crimson King Maple, 5 to 6 ft., 6 to 8 ft.  
Norway Maple, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.  
Dwarf Red Buckeye, 6 to 12 ins., 12 to 18 ins.  
Pink and White Dogwood, 3 to 8 ft.  
White Birch, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.  
5-in-1 Apple, 9/16-in. cal., 11/16-in. cal.  
Flowering Crab Apple, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.  
Redbud, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.  
Moraine Locust, 5 to 6 ft., 6 to 8 ft.  
Purple-leaved Plum, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.  
Flowering Peach, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.  
Hemlock, 30 to 36 ins., 3 to 4 ft.  
Pyramidal Arborvitae, 2 to 3 ft., 3 to 4 ft.  
Globe Arborvitae, 15 to 18 ins., 18 to 24 ins.  
Pfitzer Juniper, 15 to 18 ins., 18 to 24 ins., 24 to 30 ins.  
Sabina Juniper, 15 to 18 ins., 18 to 24 ins.  
Pin Oak, 4 to 5 ft., 5 to 6 ft., 6 to 8 ft.  
Red Weigela, 15 to 18 ins., 18 to 24 ins., 2 to 3 ft.  
Variegated Weigela, 15 to 18 ins., 18 to 24 ins.  
Hall's Honeysuckle, 1, 2 and 3-yr., T.

And Many Other Items to Select  
Write for catalog.

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6 to 8 ft., 8 to 10 ft., 10 to 12 and 14 ft.

### ALSO

Pink Dogwood      Flowering Crab      Fruit Trees  
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BRIDGMAN, MICH.

# BOOKS ON TREES

## CHRISTMAS TREES FOR PLEASURE AND PROFIT

By A. G. Chapman and R. D. Wray

Directions for starting and maintaining a Christmas tree farm, either as a hobby or as a business venture. Suitable land, species to be planted, caring for planting stock and laying out the plantation. Also covers harvesting, marketing and income tax considerations. 215 p., illus. (1957) .....\$3.75

## TREES FOR AMERICAN GARDENS

By Dr. Donald Wyman

Presents 745 recommended trees, giving botanical and common names, hardiness zones and maturity height. Discusses desirable varieties, bloom, ornamental fruit, foliage colors and trees for various purposes. 376 p. (1951) .....\$8.00

## THE BOOK OF TREES

By A. C. Hottes

Care and culture of deciduous and coniferous trees. Transplanting, pruning, tree repair, propagation and pronunciation of names. Describes important species. 448 p., illus. 3rd ed. (1952) .....\$4.00

## THE FRIENDLY EVERGREENS

By L. L. Kumlien

The most complete book descriptive of conifers used in landscape plantings. Seed collecting, propagation, nursery transplanting and root pruning, digging and transplanting balled evergreens, insects and diseases. 500 illus., 82 in color. 240 p. (1946) .....\$10.00

## TREES

By H. S. Zimm and A. C. Martin

Key identifies 150 species. Over 100 full-color plates show shapes, habitats, detail of twig, bark, leaf, blossom. Pocket size. 160 p. Cloth. (1952) .....\$1.95

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## COVER ILLUSTRATION

### Juniperus Virginiana Tripartita

The fountain red cedar, *Juniperus virginiana tripartita*, is a loose-growing shrub form that sometimes has the tendency to look a bit tree-like, although it does not grow over 30 feet, usually much less. Its maximum height is sometimes listed as about five feet, but that is not a correct figure. The common name of fountain red cedar describes its manner of growth.

This juniper seems to be susceptible to juniper blight, but, even with this defect, it is worth using where a loose informal large shrub is desired. The sexes are often separate on this variety—an odd occurrence within the group.

The tips of the branches are stringy and of a good, lively green. Many branches produce needle-like leaves, adding to the informality of their appearance. The long tips can be cut back to give a more compact plant, but its loose form should be encouraged and places selected to fit such a growth habit. There are times when it may be necessary to keep the growth of the plant in bounds, however.

It is found in eastern and central United States and in areas where the temperature may dip to as low as 30 degrees below zero Fahrenheit. The blue, berry-like cones are not much different from those of other red cedars, but they do ripen during the first season.

This juniper requires considerable sunlight to present its best appearance. When used in groups on a bank it produces gratifying results, and it looks particularly good where large areas surround it. Parks are ideal places, and so are roadsides, large homes and commercial buildings. Poor soil seems to cause no real growing problem, either.

Other shrublike forms of red cedar include the globe red cedar, *Juniperus v. globosa*, which grows as the name indicates, and the weeping red cedar, *Juniperus v. pendula*, with its distinctly pendulous habit. The latter is sometimes grafted at the ground level, and then the plant generally becomes a mound-like ball that is considerably wider than it is high.

The fountain red cedar is a welcome relief from the many other forms of narrow-leaved evergreens that nurserymen become accustomed to seeing and using. It is worth a try—in the right place. C. E. L.

## CALIFORNIA Association of Nurserymen

ELMER J. MERZ, Executive Secretary

### LOS ANGELES CHAPTER

A meeting of the Los Angeles chapter of the California Association of Nurserymen was held June 26 at Eaton's restaurant, Arcadia. Ninety members and guests were present for the third annual ladies' night. The meeting was called to order by President Charles Crum, Rosedale Nurseries, Inc., Monrovia, who turned the meeting over to his wife, Colleen. A special prize was won by Fred Herbert.

Guests introduced by Sally Springer were John A. Roessen and John V. Trafts, associates of Pressley Jones; Art Brown, Walt Webb and Chuck Wagner, from Chuck's Nursery, Covina; Margie Watson, Janice Remington and Earl Wodard, guests of Merrick's Nurseries, Pico; Mrs. Joe Gilbert, of Select Nurseries, Whittier; Mr. and Mrs. Keen, from Rosedale's Nurseries, Inc.; Mrs. Florence Estabrook, guest of Weeks Roses, and Roger Price, sales manager of Germain's Seed Co., and Mrs. Price. Special guests were Mrs. Crum's aunt and uncle, Mr. and Mrs. Henry Brown.

A vote of thanks was given Verona Weeks for the beautiful decorations. Colleen Crum introduced Robert Hoffman, who delighted the group with several accordion numbers. She then introduced the speaker of the evening, Miss "Peg" Sullivan, landscape architect, who gave a hilarious but interesting account of her trip through European countries on a bicycle. She also showed slides of many of the gardens for which England is famous, stating that the southern tip of England, which is warmed by the Gulf stream, grows many of the tropical plants and palms which are seen in southern California. Her stories of contact with the people of England, visiting in their homes and, in some cases, staying overnight, were interesting and amusing.

Harold J. Botts, Sec'y.

MARVIN C. BUCK, who purchased the Sunset Seed & Nursery Co., Westlake, Calif., in October, 1956, after serving as manager of the firm for 12 years, was recently written up as the nurseryman of the month in the Westlake Times.



We grow 36 varieties of choice shade trees on our 800-acre growing grounds. For ready demand this year we suggest:

MODESTO ASH  
STRIBLING MULBERRY  
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WEeping WILLOW  
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We also feature a complete line of  
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FRUIT TREES  
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ORNAMENTALS  
and the world-famous  
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Ask for 4-color  
Shade Tree Folder  
and Free  
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MODESTO ASH grows 35-40 ft. and is exceptionally clean. Tap root system makes it ideal street tree. Hardy—to 10 degrees.

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Finest in roses since 1935.  
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**PACIFIC NORTHWEST ROSE NURSERY**  
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### RHODODENDRON AND EVERGREEN LINERS

*In Season*

**J. B. WHALLEY**

Rt. 2, Box 683 TROUTDALE, ORE.

### CALIFORNIA NOTES

Keller Pest Control has moved  
from a residence in Palo Alto to  
offices on El Camino Real, at Menlo  
Park.

Action Sprayers has moved from  
El Camino Real at Menlo park to  
Middlefield road, at Willow avenue,  
in Palo Alto. At the location, the  
relatively new organization has erect-  
ed a building to house the offices and  
a supply line of fertilizers and spray  
materials for home gardeners. Under  
the adjoining lath is a large selection  
of popular ornamentals for retail  
sales, and adjacent to the new quar-  
ters is ample parking space. The  
firm's spraying and fertilizing equip-  
ment is parked there at night. At  
the widely advertised opening June  
14 and 15 there was an overflow  
crowd at all times.

Ben Burr, son of Charles Burr,  
California Garden Supply Co., at  
San Francisco, was a winner in the  
American Legion auxiliary essay  
contest. He represented the Palo  
Alto high school and wrote on the  
protection of America's freedom.

On Woodside road, in Redwood  
City, horticultural zoning is being  
initiated to prevent the encroach-  
ment of residential building on sev-  
eral acres of flower growing and one  
retail and one wholesale ornamental  
nursery establishment.

The California state assembly  
passed a resolution asking that more  
attention be paid to the beautifica-  
tion of freeways, especially in metro-  
politan areas. The resolution asks  
that consideration be given to land-  
scaping as well as to design of  
structures.

A malpractice suit has been filed  
in the Redwood City municipal  
court against a tree surgeon. Owners  
of a white oak tree said to be 200  
to 300 years old and worth \$2,885,  
declared the tree was 75 per cent  
injured and asked \$2,100 in damages,  
plus \$150 for repairs.

Drs. Walter Lammerts, rose hy-  
bridizer, and Hans Jenny, soil sci-  
entist, were speakers at the recent  
northern California district rose  
conference, held under the aegis of  
the American Rose Society at Oak-  
land.

The northern section of the Cali-  
fornia Society of the American In-  
stitute of Park Executives met at the  
Saratoga Horticultural Foundation,  
at Saratoga, June 3. Maunsell Van  
Rensselaer, director of the founda-  
tion, told of its purpose, and Ray D.  
Hartman, Leonard Coates Nurseries,  
Inc., San Jose, founder and principal  
endower of the foundation, told of its  
accomplishments to date. Keith  
Davey, Davey Tree Expert Co. in



San Francisco and vice-president of the foundation, spoke on the value of clonal propagation of shade trees, and Donald Jones, foundation plant propagator, talked on techniques of propagation.

Ed Walker, Los Altos nurseryman, spoke on "Rare Plants" at the June meeting of the Menlo Park Garden Club.

The farm advisers in the state are recommending the use of Gopher Tabs, a new gopher bait, as a satisfactory material for the control of these pests. Information as to the sources of the material and its uses can be had from the farm adviser in any county. W. B. B.

#### ARBORISTS CLOSE SEASON

At the last meeting for the season, the California Arborists on June 19 passed a formal program for a general discussion for mutual problems. The group expressed approval of such a program, and it was suggested at the evening's end that at least one such meeting be held each year.

Greatest interest was displayed in the exchange of information on pesticides and their use. Some of the arborists who are doing an increasing amount of agricultural pest control work are finding that the newer materials are far superior to those of the past and they freely passed on their information. Attention was also called to the hazards of pesticides, the precautions that must be observed in their use and the liabilities the user incurs. Types of protective clothing and other safety measures for tree sprayers and surgeons were brought into the conversation.

There was a feeling on the part of some that they should have greater protection from substandard pesticides. The membership was advised that there is protection afforded them through registration of all such products by the state bureau of chemistry and none should buy or

## PACIFIC COAST NURSERY

Rt. 1, Box 114B, PORTLAND 9, ORE.

**Pioneering Seedling Growers on  
the Pacific Coast Since 1914**

**Specializing in Fruit Tree Seedlings  
also Shade and Flowering Trees**

French Apple Seedlings,  
Str. and Br.  
Domestic Apple Seedlings,  
Str. and Br.  
Bartlett Pear Seedlings,  
Str. and Br.  
Ussuriensis Pear Seedlings

Mahaleb Cherry Seedlings  
Mazzard Cherry Seedlings  
Myrobalan Plum Seedlings  
American Plum Seedlings  
Angers Rooted Quince  
Cuttings

Combination carloads to eastern distributing points.

**John Holmason & Sons**

**Props.**

#### DID YOU KNOW?

That the oldest living thing is a Bristlecone Pine (*Pinus aristata*) 4000 years of age, 1000 years older than the oldest sequoia.



**SHERWOOD NURSERY CO.**

Evergreens - PROPAGATORS AND GROWERS  
WHOLESALE

CORBETT, ORE.

## The Homestead Nurseries H.G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Ornamental Trees and Shrubs, Perennials — Quality Stock in All Leading Varieties. Trade catalog on request.

### STEELE'S®

**FOR 63 YEARS**

**THE MOST FAMOUS NAME  
FOR PANSY SEED**

**ORIGINATORS OF THE MASTODON® PANSY  
STEELE'S PANSY GARDENS**

P. O. Box 4555

2715 S. E. 39th Ave., Portland 2, Oregon

### MITSCH NURSERY

Wholesale Propagators of  
Evergreen Liners  
Write for latest price list.  
AURORA, ORE.

### LILIES

For Garden and Greenhouse  
Our 1957 catalog offers the most complete collection of northwest-grown species and hybrids available.  
Hardy Cyclamen a specialty.  
Copy on request.  
**EDGAR L. KLINE**  
LAKE GROVE, ORE.

### Maurice C. Ravensberg

Boskoop, Holland

Reliable exporters for general nursery stock since 1922.

Catalog on application

### HEEMSKERK & CO.'S BULBS

Quality Domestic and Holland-Grown Bulbs

Write for Wholesale Price List

P. O. Box 392 Ridgewood, N. J.  
Phone: OLiver 2-4018

use materials for any purpose other than that for which it is registered. It was further noted that one should not buy until he had read the labels.

Fertilizers for trees and methods of application came in for some discussion. Chelated irons and other metals and trace elements were considered, and there was a great divergence of opinion as to the value of these or soil amendments.

Plans for coming regional meetings were announced, and the president stated there would be no regular meetings during July and August. He added that several of the group had indicated a desire for a picnic type of meeting during the summer and, if enough felt that way, such an affair would be arranged. No action was taken before adjournment for doughnuts and coffee. W. B. B.

### GRAFTING MACHINE

Automation is really coming to the farm. From the University of California, Davis, C. J. Alley, assistant specialist in viticulture, reports on a mechanized grafting machine designed by a former associate viticulturist at the Davis campus. The article states that with the grafting machine three reasonably skilled men can make between 700 to 1,000 grape grafts per hour and that the grafts compare favorably with short whip grafts made by a skilled grafter.

The machine described is a portable piece of equipment which is to be used in a shed or other set place. However, the author states that it can easily be modified for field grafting of vines too large to be field budded or when a grower is changing over to new varieties. Growers and propagators of started-eye roses and fruit trees are reported to be interested in this equipment. W. B. B.

**SUPERIOR NURSERY CO.** recently moved from its south-side Slauson avenue location to one on Morton avenue, just out of downtown Los Angeles, Calif.

**AVALON NURSERY**, Long Beach, Calif., will be forced to move from its present location at 13000 South Avalon boulevard to make room for industrial expansion in the area.

**TROPHIES** were awarded the Tetley & Son Nurseries, Corona, Calif., in the California Landscape Contractors' Association trophy award contest for public works and residential landscaping. Bakersfield City Hall and the palatial Ernest Cook home at La Jolla were the award-winning projects.

## HOLLAND-GROWN NURSERY STOCK

Rhododendrons

Azaleas

Deciduous Shrubs

Choice Trees

Perennials

RARE and NEW PLANTS

**F. J. GROOTENDORST & SONS**

BOSKOOP

HOLLAND

American Representative:

Manuel Litt

3823 Ave. T., Brooklyn 34, N. Y.

Ask for 62-page catalog.

## SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

**E. C. MORAN, Stanford, Mont.**

## MILTON NURSERY CO.

**Our 80th Year**

**MILTON - FREEWATER, ORE.**

Flowering, Ornamental, Shade Trees and Shrubs. Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

**Licensed Growers of:**

Moraine Locust (Pat. No. 836)

Crimson King Maple (Pat. No. 735)

**Send for Our Price List**

Our combination carlots for eastern distributing points during shipping season save freight costs.

## DOTY & DOERNER, Inc.

6491 S. W. CAPITOL HIGHWAY  
PORTLAND 19, OREGON

\*\*\*\*\*  
WHOLESALE

**GENERAL NURSERY STOCK**

## WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: **\$4.50** per inch, each insertion.

Liners: **40¢** line; minimum order **\$4.00**.

### SITUATION WANTED

Expert nurseryman, 46 years old, desires permanent position, preferably in east or midwest, as manager of garden center or large nursery specializing in outside growing stock. Thorough knowledge of production and salesyard operation, with experience in merchandising, buying and display of plants. Available in September. Address replies to Box 415, care American Nurseryman.

### HELP WANTED

LANDSCAPE SALESMAN

We need a man qualified in design, drawing plans, etc., to call on our customers. Salary until established, then commission.

We are located in Kentucky, have a good sales area, 400 acres of nursery stock, and have been in business over 100 years. If interested write, giving your past experiences and references of former employer.

Reply to Box 400, care of American Nurseryman.

**SITUATION WANTED**—Do you need a good right-hand man in your nursery and greenhouse business? I have some capital and am eager to learn. Hard worker. Prefer suburban Wisconsin or Michigan. Write **RALPH LITTLE**, Guthrie Center, Ia.

### HELP WANTED

Incorporated nursery in western New York state, growing evergreens and ornamentals only, has openings for two men, a salesyard operator to take charge of retail sales and a digging foreman to supervise digging wholesale orders. Prefer men with some experience, but not necessarily in salesyard. No better advancement anywhere to a person willing to work and prove his capabilities.

**STEDMAN NURSERIES, INC.**

150 S. Main St.  
Newfane, Niagara Co., N. Y.

### SITUATION WANTED

Young man, age 28, high school graduate, married, with two children. Over 11 years' experience in plant propagation, designing, selling, nursery management, complete tree care programs, disease and insect control. Desires to make change to west coast or Pacific northwest. Looking for position with well-established firm offering chance for advancement. With last employer over 11 years. Best of references. Write Box 420, care of American Nurseryman.

### HELP WANTED

An expanding wholesale and retail nursery in Connecticut needs an aggressive supervisor with sales experience. Also two foremen. Permanent positions, good salary, plus bonus and holiday payments. Write giving age, experience and all pertinent information in the first letter. All replies will be kept strictly confidential. Write Box 403, care of American Nurseryman.

**FOR SALE**—Business may be offered for sale by use of a want ad liner such as this. Cost: 40¢ per line (minimum order \$4.00). Your ad will be seen by more than 9800 American Nurseryman readers.

## BUSINESS OPPORTUNITY LANDSCAPE BUSINESS

Work with landscape business this year and lease or own the business after this year. Clientele is finest in area of 100,000. Operation has been conducted on basis of quality plants and merchandise, good service and honest endeavor and it must be continued so. Trucks, tractors, servicing equipment and merchandise are part of business. Owner is golf course architect and must sell in order to devote full time to golf course design. For information write:

ROWLAND ARMACOST  
Stonehouse Rd. Hinsdale, Mass.

## HELP WANTED

Gardener, married, for private estate in the Pittsburgh area. Apartment for two, licensed to drive, take care of small greenhouse, raising annuals, etc., for own use. Must have some knowledge of the care and maintenance of lawns, evergreens and shrub plantings. Salary \$300.00 per month. Please give employment record for the last ten years. Write Box 416, care of the American Nurseryman.

## FOR LEASE

Owner retiring January 1, 1958. Will lease to financially responsible person, a well-established and highly profitable cash-and-carry nursery and pottery business located in one of eastern Pennsylvania's most progressive and highly industrialized cities. For further details address Box 416, care of American Nurseryman.

## HELP WANTED

### SALESMAN

Expanding wholesale nursery needs aggressive representative. Write giving age, experience and all pertinent information in first letter. All replies will be kept strictly confidential. Write Box 348, care of American Nurseryman.

## HELP WANTED

### SALESMAN

Representative now calling on nursery and florists' trade. To sell wholesale nursery supplies. Liberal commissions, repeat sales.  
AMERICAN-DUTCH  
TRADING CO., INC.  
47 Coddling St. Providence 9, R. I.

## HELP WANTED

### LANDSCAPE SALESMEN

Qualified men will receive top commissions with opportunities for managerial position with fast-growing sales organization. Write giving age, experience and all pertinent information in first letter. All replies will be kept strictly confidential. Write Box 54, Station B, Omaha, Neb.

## HELP WANTED

Nursery foreman with substantial background in landscape design, greenhouse operation, experience in handling men. Living conditions above average; near rapidly growing eastern Pennsylvania city. Write Box 417, care American Nurseryman.

## HELP WANTED

Manager for established garden center in the east. Experience preferred. Attractive salary. Address replies to Box 419, care of American Nurseryman.

## FOR SALE

Old-established nursery, garden store and landscape business located on a main traffic street and surrounded by the finest residential areas in the northwest's largest and fastest-growing city. Selected clientele, a money-maker for either a family enterprise or for two partners. Climatic conditions insure year-round operation. A real opportunity. Present owners must retire on account of illness. Address replies to Box 362, care of American Nurseryman.

## FOR SALE

Follow the crowds to southern California. Once in a lifetime chance to acquire a thriving retail nursery in one of southern California's finest suburbs. Business includes a modern garden shop, greenhouse, retail nursery and landscape operation. Clean, attractive location and inventory; gross sales over \$100,000 in 1956—yielded a handsome net profit. Sale for health reasons only. Business, inventory, trucks and equipment priced \$35,000. Attractive long-term lease on premises. Reply to Box 394, care of American Nurseryman.

## FOR SALE

### THE GARDEN GATE NURSERY

Perennial plant nursery and cut flower business in historical Wolfeboro, New Hampshire, on Lake Winnepesaukee. Gardening equipment included. Town water supply. 4-bedroom Cape Cod house, furnished. Oil heat. Price: \$16,500. Those not prepared to pay this price, please do not write. Reply to:

THE GARDEN GATE NURSERY  
Wolfeboro, N. H.

## FOR SALE

Offering at a bargain price, a nursery and landscape business established since 1898 in Blackwell, Kay Co., the banner county of northern Oklahoma. Everything modern including rebuilt storage and steel-welded lath house for potted stock. Doing a good retail cash-and-carry business. No close competition. The reason for selling is old age and invalid wife. If you mean business, get in touch at once. Write P. O. Box 288, Blackwell, Okla.

## FOR SALE

Profitable nursery, no competition nearby. Ideal for man with small capital, to settle for life.

JOE SCHNEIDER  
Denton, Md.

## HELP WANTED

Two experienced men in the landscape nursery field. Must have background in preparing estimates and selling to builders, architects, contractors and to larger individual homeowners. One of the oldest and finest firms in the Philadelphia area. Write to Box 402, care of American Nurseryman.

## SITUATION WANTED

Horticulture graduate, age 32, with graduate study in landscape architecture, desires position with either a professional office, the state government or a nursery with landscaping department. Will relocate east of Mississippi for permanency.

F. S. BARTLETT  
Park St. Gray, Me.

## FOR SALE

Established wholesale greenhouse operation located in southwest, in heart of area serving direct more than 5,000,000 people. Ideal year-around growing conditions. Land, buildings, stock and equipment will inventory 50 per cent more than sale price. Permanent personnel. Low overhead. More than 30,000 square feet of greenhouse space, well stocked with growing plants and stock plants. Established customers. High profits. Good housing facilities. Can operate with absentee ownership. Excellent investment. Write to Box 408, care of American Nurseryman.

## FOR SALE

A fine growing business and good location. Seven miles west of Cincinnati, Ohio, Rt. 52. Almost nine acres of land. Three greenhouses (2646 ft.) under glass. One large salesroom, 16x44 ft., with six large, plate glass windows. One 7x10-ft. walk-in box for cut flowers, just installed. Two very large slat houses, one large barn, some nursery equipment and a seven-room modern house, furnished. For further information write to:

Mrs. D. T. Edwards, Prop.  
EDWARDS NURSERY  
P. O. Box 156 Miamitown, O.

## FOR SALE

Thriving small garden center. Ideal for couple. Main route in Michigan town of over 40,000 people. Very good buy. Write Box 418, care of American Nurseryman.

## FOR SALE

Established retail nursery, 6½ acres, choice location on Long Island. Modern ranch home, outbuildings, equipment, etc. For details write: Box 67, Deer Park, L. I., N. Y.

## FOR SALE

Thriving nursery and garden center in one of the fastest-growing southwest suburbs of Chicago on U. S. Highway No. 7. Store and living quarters. Selling due to ill health. Write Box 414, care of American Nurseryman.

## FOR SALE

Established nursery in southeastern Wisconsin. Complete line of power equipment. Modern 6-room dwelling and bath, with oil heat. 2 new Lord & Burnham greenhouses and storage buildings. Write Box 407, care of American Nurseryman.

## FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.  
SEABOARD GENERAL SUPPLY CO.  
Elizabeth 4-9041 Waverly 6-0404  
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE—Small southeastern nursery located in rapidly growing section of northern South Carolina and southern North Carolina, near Charlotte, Rock Hill, Gastonia and smaller communities. Operating since 1934. Landscape varieties, mostly evergreens. Some six acres available. Purchaser can continue business here, renting property at low rent, or remove when desired. Terms to suit. Total stock must be sold. Age necessitates sale. A. V. Snell, CHEROKEE NURSERIES, York, S. C.



# CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the September 1 issue must be received by Friday, August 9.

Forms for September 15 issue will close Friday, August 30.

## AZALEAS

### HARDY AZALEAS

We have a stock of over 200,000 hardy Azaleas, from 6-in. to 1 ft. Try our Northern, outdoor-grown Azaleas and see the difference in hardiness. More compact and heavier root systems. We can supply the following varieties:

Louise Gable, Rosebud, Rose Greeley, Carmen, Fedora, Louise, Othello, Salmon Beauty, Addy Wery, amoena, Coral Bells, Daybreak, Favorite, Hinoegiri, Hino-Crimson, Maxwellli, Orange Beauty, Polar, Snow, Beethoven, Johann Strauss, ledifolia alba.

Write for prices. All B&B.

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.

### AZALEA LINERS

DELIVERY SPRING, 1958.  
POT OR FLAT-GROWN.

AMOENA CORAL BELLS  
GREETING HERBERT  
HINO-CRIMSON HINOEGIRI  
PALESTRINA POUKHANENSIS  
MACRANTHA MME. PERICAT  
ROSEBUD SNOW

WRITE FOR COMPLETE LIST.

\$14.00 per 100, \$125.00 per 1000.

DELAWARE VALLEY NURSERY  
948 N. Broad St. Elizabeth 3, N. J.

### AZALEAS, 1-YR. CUTTINGS

Flat containing 70 plants, \$9.00 per flat. Ask for price on 50 flats or more. ALADDIN, BLAAUW'S PINK, FEDORA, HERBERT, HINO-CRIMSON, KATHLEEN, MARY ANN, OTHELLO, PALESTRINA, ROSEBUD, ZAMPA, HYBRID RHODODENDRONS, ROOTED CUTTINGS WITH LARGE PEAT BALLS, \$60.00 PER 100. ASK FOR LIST. CALL ORDERS ONLY. GERARD K. KLYN, INC., MENTOR, O. Wholesale Rose Growers and Nurserymen

### HINO-CRIMSON

Thousands of beautiful Hino-Crimson and other evergreen Azaleas. Dense, bushy, well-budded, for landscape planting and forcing. Book your order now, to be sure of getting yours for next season, as there never are enough to meet the demand.

THE TANKARD NURSERIES, Exmore, Va.

If you don't find it listed here try a Want Ad in the next issue of the American Nurseryman.

## BERRY PLANTS

### CUMBERLAND RASPBERRIES

\$4.50 per 100, \$40.00 per 1000, in lots of 1000 to 5000; 5000 or more, \$37.50 per 1000.

WAYNESBORO NURSERIES, INC.  
Waynesboro, Va.

9,500 Active Nurserymen

are in need of stock.

List your offerings in the American Nurseryman Classified Section.

## BULBS AND TUBERS

DIRECT FROM THE GROWER  
QUALITY GUARANTEED

Our new wholesale price list for fall 1957 offers a choice assortment of imported as well as domestic-grown bulbs and plants. You will find the best in the new as well as all popular kinds of

TULIPS HARDY LILIES  
NARCISSI EREMURUS  
HYACINTHS LIATRIS  
CROCUS MERTENSIA  
MUSCARI PEONIES  
COLCHICUMS HEMEROCALLIS  
DUTCH IRISES HARDY PHLOXES  
and many other desirable items for forcing and outside planting.

Ask for your copy TODAY. It will be to your advantage.

A. M. GROOTENDORST  
P. O. Box 123 Benton Harbor, Mich.

IMPORTED DUTCH FALL BULBS  
Reasonable prices. Send for price list.  
F.O.B. Atlantic ports or Highland, Ind.  
J. LEEGWATER & SONS  
2809 Highway Ave. Highland, Ind.

## COTONEASTERS

### COTONEASTERS

DIVARICATA  
6-in. cans ..... \$1.00  
3 ft., heavy, B&B ..... 3.00  
HORIZONTALIS  
6-in. cans ..... 1.00  
18 to 24 ins., B&B, heavy ..... 2.00  
24 to 30 ins., B&B, heavy ..... 3.00  
PRAECOX  
6-in. cans ..... 1.50  
18 to 24 ins., B&B, heavy ..... 2.50  
24 to 30 ins., B&B, heavy ..... 4.00  
BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.

## DOGWOODS

### CORNUS FLORIDA

Grown from our own seeds. Over 100,000.  
10 to 12 ins. .... \$ 50.00 per 1000  
12 to 18 ins. .... 75.00 per 1000  
18 to 24 ins., select heavy... 100.00 per 1000  
24 to 30 ins., select heavy... 150.00 per 1000  
3 to 4 ft., B&B ..... \$1.50 each  
4 to 5 ft., B&B ..... 2.50 each  
5 to 6 ft., B&B ..... 3.50 each  
6 to 7 ft., B&B, heavy ..... 7.50 each  
7 to 8 ft., B&B, heavy ..... 10.00 each  
8 to 10 ft., B&B, heavy ..... 15.00 each  
10 to 15 ft., B&B ..... \$20.00 to 25.00 each  
BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.

More customers for you!  
Over 9,500 subscribers, all active buyers.  
see your ad in the American Nurseryman.

## EVERGREENS, Liners

EVERGREEN LINERS AND CUTTINGS  
FIELD-GROWN TRANSPLANTS  
POT-GROWN STOCK (FROM 2 1/2-IN. POTS)  
Grown in open lath house or outside frames.  
Arborvitae, Junipers, Taxus.  
Boxwood, Viburnums, Euonymus.  
HEAVY ROOTED CUTTINGS  
From flats, growing outside in lath house.  
Ready for delivery now.

These extra hardy, outside-grown cuttings can be potted any time, spring, summer, fall.  
Arborvitae, Junipers, Taxus.  
Boxwood, Viburnums, Euonymus.  
WRITE FOR PRICE LIST.  
TERMS: Packing and boxing free, 3 per cent discount for cash with order.  
Our stock guaranteed 100 per cent satisfactory.

250 plants of each variety at 1000 rate.  
MIAMI NURSERY CO.  
Corner of State Rte. 25 and 71  
Phone 8815 Tipp City, O.

Turn your Surplus Stock  
into cash  
with a Classified Ad in  
the American Nurseryman.

## EVERGREENS, B&B

BALLED IN VIRGIN CLAY  
Carefully trimmed, carefully dug.  
American, Pyramid, Woodward Globe  
and Golden Biota Arborvitae.  
Euonymus alatus compactus.  
Ilex, crenata convexa and rotundifolia.  
Junipers, compact and regular Pfitzer.  
Taxus, spreading, 3 varieties.  
Other landscape items priced right.  
Write for list or phone Brazil 6785.  
HILL PARK NURSERY, Center Point, Ind.

FINISHED LANDSCAPE STOCK  
Hemlocks, 18 ins. to 5 ft.  
Black Hills Spruce, 18 ins. to 4 ft.  
White Pine, 2 to 5 ft.  
Balsam Fir, 3 to 5 ft.  
Colorado Spruce and others.  
Write for list.  
Plan to visit us this summer.  
SUNNYBROOK NURSERIES  
R. D. 2 Callicoon, N. Y.

### FINISHED STOCK

PFITZER and PYRAMIDAL ARBORVITAE.  
Large selection of potted stock  
and rooted cuttings.  
Come and see them.  
PRICED RIGHT.

TOWNSEND EVERGREEN NURSERY  
S. Walnut St. Hartford City, Ind.

## EVERGREENS, Miscellaneous

FALL 1957—SPRING 1958  
2-YR. PLANT BAND LINERS, 2 1/2-IN.  
Taxus cuspidata, 8 to 10 ins. .... Per 25 Per 250  
Taxus hicksii, 8 to 10 ins. .... \$0.37 \$0.35  
Taxus capitata, 8 to 12 ins. .... .42 .40  
Arbor., woodwardi, 6 to 8 ins. .... .32 .30  
Sold in multiples of 25 per variety.  
250 of any one variety or assorted varieties  
at 250 rate. Free boxing.

### B&B FINISHED STOCK

Each  
Taxus cuspidata (heavy), 15 to 18 ins. .... \$5.50  
Taxus densiformis, 12 to 15 ins. .... 6.25  
Juniper, Andorra, 24 to 30 ins. .... 4.50  
Juniper, Andorra, 30 to 36 ins. .... 4.50  
Arbor., gr. nigra, 24 to 30 ins. .... 2.50  
Arbor., gr. nigra, 30 to 36 ins. .... 3.00  
Euonymus yedoensis, br., 3 to 4 ft. .... .90  
B&B stock to pick up by truck.  
DRAKE'S NURSERIES  
G-4342 Branch Rd. Flint 6, Mich.

### BLACK PINE

1-yr. seedlings ..... \$ 50.00 per 1000  
3-yr. seedlings ..... 100.00 per 1000  
3-yr. transplants ..... 250.00 per 1000  
4-yr. transplants ..... 500.00 per 1000  
5-yr. transplants ..... 1000.00 per 1000  
3 ft., B&B ..... \$ 5.00 each  
4 ft., B&B ..... 7.50 each  
5 ft., B&B ..... 10.00 each  
We also have Scotch and Austrian Pine in larger sizes.

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.

## FRUIT AND NUT TREES

### CARPATHIAN ENGLISH WALNUTS

12-in., 18-in. and 2-ft. sizes.  
Quantity prices sent on request.

H. H. CORSAN, HILLSDALE, MICH.

## GROUND COVERS

### VINCA MINOR

(Periwinkle, hardy Myrtle)  
15 to 25 canes, hand-tied clumps, extra nice, fresh handled, \$50.00 per 1000; over 5000, \$45.00 per 1000.  
Hall's Honeysuckle (halliana), 3-yr., branched, \$45.00 per 1000.  
Pachysandras, 1 and 2-yr., rooted cuttings, \$55.00 per 1000.  
Euonymus coloratus, rooted cuttings, \$57.00 per 1000. Direct sun mist propagated.  
H. C. WAUGH  
Route 1 Gallipolis, O.

## HARDY PLANTS

### BLEEDING HEARTS

Peonies, Lilies, Irises

and other plants.

### ROBINSON GARDENS

Since 1915 Scotts, Mich.

## SEE THE FOLLOWING DISPLAY ADS

IRISES, page 52  
germanica  
pumila  
spuria  
HEMEROCALLIS, page 42  
JAPANESE IRIS, page 45  
ORIENTAL POPPIES, page 49  
TRITOMAS, page 50  
KINGWOOD NURSERIES, MENTOR, O.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

WELLERS BETTER PERENNIALS  
WELLER NURSERIES CO., Holland, Mich.  
Write for trade list.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.  
PEARCE SEED CO., Moorestown, N. J.



**HELLEBORUS**

**HELLEBORUS NIGER**  
(Christmas Rose)  
3-yr. transplants, blooming size.  
Suitable to pot up for sales on roadside  
stands and garden centers.  
\$50.00 per 100, \$450.00 per 1000.  
**C. HOOGENDOORN**  
Turner Rd. Newport, R. I.

**HOLLY**

**ILEX OPACA**  
**SUPERIOR NAMED VARIETIES**  
**WHOLESALE SUPPLIERS**  
**OF LINING-OUT STOCK.**  
Write for price list.  
**HOLLY HAVEN, INC.**  
Box 75 New Lisbon, N. J.

**ENGLISH HOLLY**  
12 to 15 ins., 6-in. containers; well branched  
and staked, \$2.00, in lots of 25 or more.  
F.O.B. Eayrestown, N. J.  
**HARBAUGH'S HOLLY FARM**  
Medford P. O., Eayrestown, N. J.

**HONEYSUCKLES**

**HONEYSUCKLES**  
*Lonicera japonica* halliana, extra-heavy  
No. 1, 3 and 4-yr., 18 to 24-in. field plants,  
3, 4 to 6 leads, \$40.00 per 1000; lighter grade,  
\$30.00 per 1000; sample 100, \$4.00. Experi-  
enced labor for grading and packing quan-  
tity orders. Immediate shipment. No order  
too large. Phone: 8-24612.  
**ROBINSON NURSERY CO., Greenville, Ga.**

**IRISES**

**TALL BEARDED IRISES**  
Berkeley Gold, Blue Rhythm, E. Roosevelt,  
Golden Spike, Lady Mohr, Snow Flurry,  
Wabash.  
\$1.50 per 10, \$12.00 per 100.  
Azure Skies, Cascade Splendor, Chivalry,  
Dixie Belle, Grace Mohr, Great Lakes, Minnie  
Colquitt, China Maid, Ola Kala, Rocket, Spun  
Gold, Pagan Princess, Three Cheers, New  
Snow.  
\$2.00 per 10, \$15.00 per 100.  
Casa Morena, Chantilly, Helen McGregor,  
Lady Boscawen, Inspiration, Arctic, Spin-  
drift.  
\$2.50 per 10, \$20.00 per 100.  
5 at 10 rate; 25 at 100 rate. Send for LIST.  
**HURLEY NURSERY, PAINESVILLE, O.**

**IVIES**

**BALTIC IVY**  
Hardest ivy. Fine for wall or ground  
cover. True stock. Well rooted plants, 8 to  
12-in. vines. Per 100 Per 1000  
2-in. pots ..... \$12.50 \$115.00  
2½-in. pots, 1-yr. .... 20.00 190.00  
**STRATFORD GARDENS**  
Russell Breece, Mtd. Rt. 9 Delaware, O.

**BALTIC IVY, TRUE STOCK**  
2½-in. pots, 1-yr.-old. .  
\$150.00 per 1000.  
**BAIER LUSTGARTEN NURSERIES**  
Middle Island, L. I., N. Y.

**LAWN GRASS AND SEED**

**MEYER Z-52 ZOYSIA LAWN GRASS**  
in economical, easy-to-keep turf form.  
Ideal for planting in new or old lawns.  
Makes a beautiful, dense turf that chokes out  
weeds and crab grass. cuts lawn work by  
over one-half. Thousands of square yds. sold,  
at up to \$45.00 per sq. yd., to people who are  
tired of lawn work. Our price enables you  
to sell cheaper or underbid other dealers.  
A sq. yd. equals about 400 2-in. round plugs;  
plants 300 to 400 sq. ft. only \$5.00 per sq. yd.,  
F.O.B. Auburn. With soil on roots Zoysia  
stays fresh indefinitely and can be sold like  
burriapped stock. We also have Matrella and  
Emerald. Posters and brochures FREE. Valuable  
24x48-in. outdoor sign with \$50.00 order.  
Write for complete information. Truckload  
lots delivered at attractive discounts.  
**BECK'S ZOYSIA CO.**  
861 N. College St. Auburn 5, Ala.

**PRODUCERS OF MEYER Z-52 ZOYSIA**  
Write for special dealers' prices.  
**MIAMI NURSERY CO.**  
Corner of State Rts. 26 and 71  
Tipp City, O.

Start Your Offer Now  
in the American Nurseryman  
And Watch Sales Climb

**LINING-OUT STOCK**

**FINER LINERS**  
**OF ORNAMENTAL ARISTOCRATS**  
The best is always a bargain. Our liners  
are FINER LINERS because of our genera-  
tions of experience. Let us send you our new  
spring, 1957 catalog which lists seeds to field-  
grown transplants and specimen ornamentals.  
Come see us if you can.  
**JOHN VERMEULEN & SON, INC.**  
Phone FOxcroft 9-5211  
Neshanic Station, N. J.

**LINING-OUT STOCK**

TREE SEEDLINGS			
GREEN ASH	Per 100	Per 1000	
2 to 3 ft. ....	4.00	35.00	
3 to 4 ft. ....	6.00	50.00	
4 to 5 ft. ....	8.50	75.00	
5 to 6 ft. ....	15.00	135.00	
SILVER MAPLE			
2 to 3 ft. ....	5.50	50.00	
3 to 4 ft. ....	8.00	70.00	
4 to 5 ft. ....	10.00	90.00	
5 to 6 ft. ....	22.50		
6 to 7 ft. br. ....	40.00	350.00	
EUROPEAN MOUNTAIN ASH			
18 to 24 ins. ....	10.00	90.00	
2 to 3 ft. ....	15.00	125.00	
3 to 4 ft. ....	22.00	180.00	

SHRUBS			
GREEN BARBERY			
9 to 12 ins. ....	4.50	40.00	
12 to 18 ins. ....	6.00	55.00	
12 to 18 ins. hedge. ....	10.00	90.00	
18 to 24 ins. hedge. ....	15.00	135.00	
COTONEASTER ACUTIFOLIA			
9 to 12 ins. ....	8.50	80.00	
12 to 18 ins. ....	10.00	95.00	
12 to 18 ins. hedge. ....	15.00	135.00	
18 to 24 ins. hedge. ....	20.00	175.00	

TATARIAN HONEYSUCKLE			
6 to 12 ins. ....	4.00	35.00	
12 to 18 ins. ....	6.00	50.00	
12 to 18 ins. hedge. ....	15.00	120.00	
18 to 24 ins. hedge. ....	20.00	180.00	

COMMON PURPLE LILAC			
6 to 12 ins. ....	5.00	45.00	
12 to 18 ins. ....	7.00	65.00	
12 to 18 ins. hedge. ....	15.00	135.00	

VIBURNUM AMERICANUM			
6 to 9 ins. ....	7.00	65.00	
9 to 12 ins. ....	9.00	85.00	

EVERGREEN SEEDLINGS			
AMERICAN ARBORVITAE			
6 to 9 ins. ....	5.00	45.00	
9 to 12 ins. ....	7.00	60.00	

CONCOLOR FIR			
4 to 6 ins. ....	7.00	60.00	
6 to 9 ins. ....	9.00	80.00	

DOUGLAS FIR			
6 to 9 ins. ....	6.50	60.00	
9 to 12 ins. ....	8.00	75.00	

AUSTRIAN PINE			
6 to 9 ins. ....	5.50	50.00	
9 to 12 ins. ....	8.00	70.00	

MUGHO PINE			
4 to 6 ins. ....	5.00	45.00	
6 to 8 ins. ....	6.00	55.00	
8 to 10 ins. ....	8.00	70.00	

PONDEROSA PINE			
9 to 12 ins. ....	6.00	55.00	
12 to 18 ins. ....	8.00	70.00	
18 to 24 ins. ....	10.00	90.00	

WHITE PINE			
9 to 12 ins. ....	6.00	50.00	
12 to 18 ins. ....	8.50	75.00	

BLACK HILLS SPRUCE			
4 to 6 ins. ....	4.50	40.00	
6 to 8 ins. ....	6.00	50.00	
8 to 10 ins. ....	7.00	60.00	

COLORADO SPRUCE			
4 to 6 ins. ....	4.50	40.00	
6 to 9 ins. ....	7.00	60.00	
9 to 12 ins. ....	9.50	85.00	

EVERGREENS, 2¼-IN. POT PLANTS			
ARBORVITAE			
American, dark green. ....	20.00	180.00	

Globe Woodward. ....	20.00	180.00	
Pyramidal. ....	20.00	180.00	
Siberian. ....	20.00	200.00	

JUNIPERS			
Andorra. ....	20.00	180.00	
Hetz glauca. ....	22.00	200.00	
Pfitzer. ....	22.00	200.00	
Savin. ....	20.00	180.00	
Von Ehrh. ....	20.00	180.00	

JUNIPERUS VIRGINIANA			
Special grafting grade. ....	75.00		

THE LAKE CITY NURSERIES, INC.			
Lake City, Minn.			
Phone 4432.			

EVERGREENS			
Andorra Juniper, 6 to 10 ins., bare-root. ....	\$0.06		

Von Ehrh Juniper, 8 to 10 ins., bare-root. ....	.06		
Spreading Jap. Yew, 6 to 8-in. bands. ....	.20		

Burk's Juniper (upright), 6 to 10 ins., bare-root. ....	.14		
Forsythia Lynwood Gold, 6 to 10 ins. ....	.06		
Forsythia Spring Glory, 6 to 10 ins. ....	.04		

BROADLEAFS			
Euonymus coloratus, 8 to 10 ins. ....	.03½		
Euonymus patens, small or large- leaved, 8 to 10 ins. ....	.04		
Pyracantha laurifolia, 5 to 6 ins. ....	.05		

PERENIALS			
Teucrium chamaedrys. ....	.04		
Less than 300 total order, add 2c more per plant.			

McNINCH GREENHOUSES			
St. Joseph, Mo.			

TAXUS			
20,000 HEAVY ROOTED CUTTINGS FROM SAND			

PER 100 PER 1000			
CUSPIDATA. ....	\$ 9.00	\$80.00	
HICKSII. ....	10.00	90.00	

NO SHIPPING			

BERWICK NURSERIES CO.			
2081 Winchester Pike			
Columbus, O.			

**SEEDLINGS, SPECIAL OFFER.**

WE REPEAT, because of last year's suc-  
cess, our offer of AZALEA, PIERIS AND  
RHODODENDRON seedlings, ready for  
transplanting, now or later, whenever you  
can handle them. Flats contain at least 400  
to 500 seedlings. Full flat, \$20.00; half flat,  
\$10.50. We guarantee safe arrival. Order now.  
Write or call about larger quantities or orders  
for next spring.

**AZALEAS:** POUKHANENSIS, KAEM-  
FERI, MOLLIS, MUCRONULATA; LEUCO-  
THOE CATESBAEII, PIERIS, FLORI-  
BUNDA and JAPONICA; RHODODEN-  
DRONS, RED HYBRIDS; ATROSAN-  
GUINEUM, CARACTACUS, CHARLES  
DICKENS, CHARLES BUTLER, GENERAL  
GRANT, EVERESTIANUM (lavender),  
ENGLISH ROSEUM (rose-pink) and RHOD.  
CAROLINIANUM.

**JOHN VERMEULEN & SON, INC.**  
Phone FOxcroft 9-5211, Neshanic Sta., N. J.

LINING-OUT STOCK			
Berkmans' aurea nana Woodward Globe			
Alumii. ....			
Pfitzer Juniper. ....			
Buxus japonica			
Buxus harlandi			
3 to 5 ins. ....	\$8.00	per 100.	
5 to 7 ins. ....	\$12.00	per 100.	

Ligustrum lucidum	Gardenia fortunei		
Gardenia radicans	Ilex buxifolia		
Ilex rotundifolia	Ilex burfordi		
6 to 8 ins. ....	\$8.00	per 100.	
8 to 10 ins. ....	\$10.00	per 100.	

We are booking orders now for immediate  
and later delivery.

Write for complete price list.  
**FLOWERWOOD NURSERY, INC.**  
P. O. Box 185 Cairo, Ga.

**FINER LINERS, SURPLUS SALE**  
Send for list of choice liners, specially  
priced for sale during August. Real bargains  
on our regular quality plants. Odd lots at  
practically "you-name-it" prices, not listed;  
must see.

**JOHN VERMEULEN & SON, INC.**  
Phone FOxcroft 9-5211, Neshanic Sta., N. J.

**MAPLES**

**NORWAY MAPLE**  
Straight trunks. Fine heads. Very fibrous  
roots.

10-49 50-250			
6 to 8 ft. ....	\$ 3.00	\$2.50	
8 to 10 ft. 1 to 1¼-in. ....	4.40	3.50	
9 to 11 ft. 1¼ to 1½-in. ....	6.00	5.00	
10 to 12 ft. 1½ to 1¾-in. ....	8.80	7.00	
11 to 13 ft. 1¾ to 2-in. ....	11.00	9.00	

**PRINCETON NURSERIES**  
Princeton, N. J.

**COLLECTED ACER**  
**RUBRUM AND SACCHARINUM,**  
from whips to 4-in. caliper.

**CURTIS NURSERIES, INC.**  
Callicoon, N. Y.

Classified Ads Offer Maximum  
Results at Minimum Cost.

**PACHYSANDRAS**

**PACHYSANDRAS**  
1-year-old, large frame-grown plants.  
Satisfaction guaranteed.

Large quantity.  
\$5.50 per 100, \$43.00 per 1000.  
\$40.00 per 5000.

**BRUNDAGE & GUTHRIE**  
123 Franklin St. Tarrytown, N. Y.

Pachysandras, strong plants, grown in soil  
frames with light shade. First-class stock,  
\$45.00 per 1000; \$42.50 per 1000 for 5000 or  
more, including good packing.

Peekskill Nursery, Shrub Oak, N. Y.

**PACHYSANDRAS**  
Strong rooted cuttings, \$4.25 per 100, \$40.00  
per 1000.

**DUNWOODIE NURSERIES**  
6 Smart Ave. Yonkers, N. Y.

**PACHYSANDRAS**  
Out of 2-in. pots, \$12.00 per 100, \$100.00  
per 1000. F.O.B. Elizabeth, N. J.

**DELAWARE VALLEY NURSERY**  
948 N. Broad St. Elizabeth, N. J.

Check Your Stock NOW!  
If you have a surplus  
sell it through the  
American Nurseryman Classified Ads.

**PEONIES**

**2-YR. FIELD-GROWN PEONIES**  
Whole clumps, not divided; 6 eyes and up,  
\$75.00 per 100, \$700.00 per 1000; divisions,  
3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000,  
following varieties:

Adolph Rousseau, Albert Crousse, Baroness  
Schroeder, Duch. de Nemours, Edulis Sus-  
perba, Felix Crousse, Festiva Maxima, Gen.  
McMahon, Karl Rosefield, Lady Alex. Duff,  
Marie Lemoine, Mons. Julius Elie, Reine Hor-  
tense, Sarah Bernhardt.

**VERKADE'S NURSERIES, Wayne, N. J.**

**TREE AND HERBACEOUS PEONIES**  
**ATHA GARDENS, WEST LIBERTY, O.**

## PEONIES—Continued

## PEONIES

Strong 3 to 5-eye divisions from young plants. Deliveries beginning August 15. Packing free for cash with order, otherwise at cost. 5 of a variety at 10 rate; 25 of a variety at the 100 rate.

Baroness Schroeder, flesh-pink.....	10	100
Canari, sulphur-white.....	\$3.50	\$30.00
Duchesse de Nemours, Ivory-wh.....	4.00	35.00
Duchesse d'Orleans, soft pink.....	3.00	25.00
Duke of Wellington, pure white.....	3.50	30.00
Eduis Superba, deep pink.....	3.00	25.00
Felix Crousse, ruby-red.....	4.00	35.00
Festiva Maxima, white.....	5.00	40.00
Francola Ortegat, crimson.....	3.50	25.00
Karl Rosefield, dark crimson.....	4.50	40.00
Lillian Wild, flesh to white.....	4.00	35.00
Marie Jacquin, semi-double white.....	5.00	40.00
Mary Brand, crimson.....	7.00	60.00
Mme. de Verneville, white.....	4.00	30.00
Modeste Guerin, deep carmine-pink.....	5.00	40.00
Mons. Jules Elie, pink.....	4.00	35.00
Myrtle Gentry, beautiful light pink.....	6.00	40.00
Officialis Rubra, early red.....	7.00	60.00
Ozark Beauty, late deep pink.....	4.00	30.00
Philippe Rivoire, very dark crimson.....	8.00	65.00
Queen Emma, silvery pink.....	4.00	30.00
Queen Victoria, white.....	3.50	30.00
Sarah Bernhard, light pink.....	4.00	35.00
Venus, hydrangea-pink.....	4.00	35.00
Mixed Peonies, grown mixed.....	2.50	20.00
Pink Peonies, not named.....	3.00	25.00
White Peonies, not named.....	3.00	25.00
Red Peonies, not named.....	3.00	25.00

## PEONY LINERS

2 to 3-eye divisions, 25 per cent off the 3 to 5-eye price; 1 to 2-eye divisions, 50 per cent off the 3 to 5-eye price.  
We grow many additional varieties of Peonies. Send us a list of your additional requirements for quotation. Iris and Day Lily list on request.

SARCOXIE NURSERIES PEONY FIELDS  
Wild Bros. Nursery Co.  
Phone 43 Sarcoxie, Mo.

## PIERIS

## PIERIS JAPONICA (ANDROMEDA)

1-yr., T, 2 to 3 ins.....	Per 100	Per 1000
PLANE VIEW NURSERY	\$3.00	\$75.00
West Main Rd., Newport, R. I.		

## POPPIES

## ORIENTAL POPPIES

Strong, field-grown roots, true to name.	
Finest we have ever grown.....	10 100
BETTY ANN, soft pink; less spots.....	\$2.50 \$20
BIG JIM, outstanding oxblood-red.....	3.00 25
BONFIRE, fire-red, new Curtis.....	7.50 ..
BUCKEYE RED, new Curtis med.	
red.....	6.00 50
CARMEN, cardinal-red, New.....	6.00 50
CARNIVAL, upper half nasturtium-red; lower part creamy wh. New.....	4.50 40
CHEERIO, bluish-pink, red spots.....	3.50 30
CRIMSON POMPON, dbl. blood-red.....	3.00 25
CURTIS GIANT FLAME, flame-red.....	3.00 25
ENCHANTRESS, soft lilac-rose.....	3.00 25
FIELD MARSHALL VON DER.....	
GLOTZ, white, black spots.....	3.50 30
G.I. JOE, clear watermelon-pink.....	3.50 30
GLOWING EMBERS, crimson-red.....	2.50 20
GLOWING ROSE, glowing rose-pink.....	3.50 30
HELEN ELIZABETH, soft pink; heavily crinkled.....	2.50 20
HENRI CAYEUX IMP., lavender.....	3.00 25
JOHN III, deep coral-pink; no spots.....	2.50 20
LACHS KOENIG, deep salmon-pk.....	2.50 20
MANDARIN, rich Chinese-red.....	3.00 25
MARY JANE MILLER, salmon-pink.....	3.00 25
MAY CURTIS, watermelon.....	
finest Poppy ever introduced.....	6.00 50
MRS. PERRY, light geranium-pink.....	2.30 18
PINK LASSIE, large salmon-pink.....	3.00 25
RED FLAME, fiery scarlet-red.....	3.00 25
RIDGEWOOD BEAUTY, bright geranium-pink.....	2.50 20
ROSE BEAUTY, distinct cerise-pink.....	2.30 18
SALMON GLOW, dbl. salmon-orange.....	2.50 20
SASS PINK, delicate flesh-pink.....	3.00 25
TANGERINE, bright orange.....	2.50 20
FINE MIXTURE, our selection.....	2.00 15

## FLOR-ACRES, BRIDGMAN, MICH.

Oriental Poppies, 1 or 2-yr., \$15.00 per 100:  
Oriental, orange-scarlet: Barr's White, black spots; Crimson Pompon, double blood-red; Henri Cayeux Improved, rose shaded burgundy; Helen Elizabeth, pure pink without spots; Mrs. Perry, salmon-pink with black spots; Joyce (\$20.00 per 100), large cerise-rose, very choice; Salmon Glow, double salmon-orange; Watermelon, very unusual color. Send for perennial trade list.  
Ridenour's Flower Farm, R. 1, Allen, Mich

## ORIENTAL POPPIES

See page 42 for the latest and best varieties.

THE JOSEPH F. MARTIN CO., INC.  
Painesville, O.

## PYRACANTHAS

PYRACANTHA LALANDI	
6-in. cans, 18 ins.....	\$1.00
9-in. pots, 2 to 3 ft.....	\$2.00 to 3.00
5-gal. cans.....	5.00

BAIER LUSTGARTEN NURSERIES  
Middle Island, L. I., N. Y.

## RHODODENDRONS

30,000 NORTHERN-GROWN, HARDY HYBRID RHODODENDRONS	
Sizes.....	3 ft., budded, Superior stock.
Send for price list, available August 15.	
LITTLE TREE NURSERIES	
Rowley, Mass.	

RHODODENDRONS	
HYBRID RHODODENDRONS	
Landscape sizes.	
Different colors.	
PARMENTIER'S ROSES	
Grady St. Bayport, L. I., N. Y.	
Phone Bayport 8-0811	

RHODODENDRON MAXIMUM	
Nursery-grown and collected, 2 to 7 ft. high. Well-shaped, symmetrical plants.	
CURTIS NURSERIES, INC.	
Callicoon, N. Y.	

## ROSEBUSHES

2-YR., FIELD-GROWN ROSEBUSHES	
Bare-root or processed.	
No order too small or no order too large.	
Try us one time and you will have a dependable source of quality and service. We prepay all shipment or deliver by our trucks.	
New list ready and waiting for you.	
ROSELAWN NURSERIES	
Box 295 Winnsboro, Tex.	

FIELD-GROWN ROSEBUSHES	
FINEST QUALITY.	
Hybrid Teas, Floribundas.	
Polyanthas and Climbers.	
Price and variety list on request.	
WELLS BROS. NURSERY	
Box 625 Lindale, Tex.	

## SEEDS

FANSY SEEDS	Per oz.
Swiss Giants, mixed.....	\$5.00
Jumbo Giants, mixed.....	5.00
All separate colors.....	6.00
1956 harvest, 94 per cent germination.	
We use the same seed.	
After August 5, we will have 1957 harvested seed of above varieties, same price, germination and kinds.	
Buy direct from the grower. Satisfaction guaranteed.	
PALACE GARDENS	
P. O. Box 561 Kalamazoo, Mich.	

COLO. EVERGREEN SEED	
New crop catalog available in September.	
Buy from the collector for best prices. Douglas Fir, too! Send us your address.	
WESTERN EVERGREENS	
Route 1 Golden, Colo.	

Juniperus virginiana (Platt Red Cedar), \$4.50 per lb. Pansy Swiss Giants, mixed; finest; oz., \$9.00; lb., \$30.00. Also tree seed and flower seed.	
Forestry Seed Service, Cuba, Kan.	

## SHRUBS AND TREES

Rooted summer cuttings for fall delivery. All priced per 100 (1000 rate on request).	
Abelophyllum distichum.....	\$40.00
Andromeda polifolia nana grandiflora.....	25.00
Forsythia Beatrix Farrand.....	20.00
Forsythia Bronzensis.....	30.00
1-yr. bedded:	
Berberis Crispum Pigmy.....	30.00
Ilex crenata convexa.....	20.00
Ilex crenata rotundifolia.....	20.00
Pieris japonica.....	30.00
Pieris taiwanensis.....	50.00
Rhododendron catabiense grandiflora.....	90.00
Rhododendron roseum elegans.....	90.00
Ilex crenata convexa, 6 to 8 ins.....	50.00
Ilex crenata rotundifolia, 6 to 8 ins.....	50.00
Have room to root 50,000 Taxus cuttings on contract.	
Rudolph Kluis, Box 164, Bound Brook, N. J.	

COLLECTED, INSPECTED  
HARD MAPLE TREES

Also  
Ostrya virginiana the American Ironwood.  
Write for prices and sizes.

SCOTCH GROVE NURSERY  
Scotch Grove, Ia.

## SHADE TREES AND SHRUBS

FALL, 1957	Each
1000 Silver Maple, 6 to 8 ft., ¾ to 1-in.....	\$1.25
1500 Chinese Elm, 6 ft., 1 to 1½-in. cal.....	1.10
250 Sugar Maple, 5 to 6 ft., ¾ to 1-in.....	1.50
400 Mt. Ash, 5 to 6 ft., ½ to ¾-in. cal.....	1.25
150 Viburnum dentatum, 18 to 24 ins.....	..
300 Red Barberry, 18 to 24 ins.....	.35
Stock has been sheared and well fertilized. Color excellent. F.O.B. nursery. We cannot ship, must be picked up at nursery.	

## RATHBUN NURSERY

Rt. 5 Coldwater, Mich.  
2 miles west of Coldwater on U.S. 112.

## SHRUBS AND SPECIMENS

Each, 100 1000	
Cotoneaster divaricata,	
18 to 24 ins.....	\$0.75 ...
Philadelphus virginialis, 2 to 3 ft.....	.45 \$0.40
Philadelphus virginialis, 3 to 4 ft.....	.60 .45
Weigela vaniceki, 2 to 3 ft.....	.55 .50
Weigela rosea, 2 to 3 ft.....	.45 .40
GERARD K. KLYN, INC., MENTOR, O.	
Wholesale Rose Growers and Nurserymen.	

FORSYTHIA BEATRIX FARRAND	
Strong plants out of 2½-in. plastic pots, \$25.00 per 100, \$225.00 per 1000.	
No additional charge for packing.	
F.O.B. Chino, Calif.	
Minimum order 100 plants.	
DESCANSO DISTRIBUTORS, INC.	
12492 Pipeline Chino, Calif.	

## VINCS

VINCA MINOR, SEEDS AND RUNNERS	
SEEDS, 115, \$1.00.	
RUNNERS	105 210
Common, Blue Shades, Alpina.....	\$4.00 \$7.00
Bowles'.....	4.50 8.00
ALL POSTPAID.	
GOLDEN ACRES NURSERY (A)	
Shippewana, Ind.	

Hardy Myrtle (Vinca minor), \$5.00 per 100, \$45.00 per 1000. Cash.  
Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

## MISCELLANEOUS

LINERS, WITH COLOR PICTURE TAGS of Crab Apples, Flowering Peach, fruit and shade trees, flowering shrubs, etc.  
Low prices. High-quality stock.  
Send for advance price list.

GLOBE NURSERIES	
Box 249 McMinnville, Tenn.	
Quick — Convenient — Cheap!	
Selling through the Classified Ads of the American Nurseryman.	

## WANTED

Wanted—Large quantities of Taxus wood for cuttings, to be shipped during the fall season. Make offer of varieties, quantities and best cash prices.  
Verkade's Nurseries, Wayne, N. J.

## SUPPLIES

## CANE STAKES

NBS  
NURSERY BAMBOO STAKES  
These imported stakes are especially selected for nursery and florist use. All are bottom or butt cuts for minimum taper, cut closely to a joint to reduce splitting. These are the finest quality obtainable.

Per bale	
4 ft., ½ to ¾-in. dia., 500 per bale.....	\$22.50
5 ft., ¾ to 1-in. dia., 250 per bale.....	17.50
6 ft., ¾ to 1-in. dia., 200 per bale.....	17.50
7 ft., ¾ to 1-in. dia., 150 per bale.....	19.00
8 ft., ¾ to 1-in. dia., 100 per bale.....	16.00
Less these generous quantity discounts: 5 bales up, less 10 per cent; 10 bales up, less 15 per cent; 25 bales up, less 20 per cent. Bale lots only.	
F.O.B. Ridgefield. Immediate shipment.	
Pencil thick bamboo stakes also available.	
Write for prices.	
McHUTCHISON & CO.	
695 N. Grand Ave. Ridgefield, N. J.	

LIGHTNING SERVICE	
ON	
FRESHLY IMPORTED	
JAPANESE BAMBOO CANE STAKES	
from	
NEW YORK, CHICAGO, PORTLAND, ORE.	
Write for our competitive prices and generous quantity discounts.	
McHUTCHISON & CO.	
695 Grand Ave. Ridgefield, N. J.	
2505 S. E. 11th Ave. Portland 2, Ore.	

BAMBOO CANE STAKES  
For greenhouse and nursery purposes.  
All types and sizes.  
Write for prices and quantity discounts.  
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No. 5, 14x16x2 1/2	275	23.25
No. 6, 14x16x3 1/2	290	27.50
No. 7, 15x22x2 1/2	380	30.75
No. 8, 15x22x3 1/2	425	35.50
No. 9, 11 1/4 x22x2 1/2	320	25.00
No. 10, 11 1/4 x22x3 1/2	400	29.00
No. 11, 14x16x5	450	32.75
No. 12, 5x11x5	160	16.75
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## OREGON NOTES

A conference was held recently at the Oregon state fairgrounds at Salem of the various groups interested in the 1957 garden and floral show, which will be held during the state fair, August 31 to September 7.

The Oregon state department of agriculture has alerted Oregon nurserymen who ship stock into British Columbia, Canada, concerning host plants of the Oriental fruit moth. Frank McKennon, plant chief of the department, says that, although no official word has yet arrived concerning the quarantine, unofficial word is that the order from Canada is on the way. Mr. McKennon said that this will require fumigation in a gastight chamber, refrigerator, railway car or van. Fumigation under a tarpaulin will not be acceptable, he said, as the order is now written. He advised Oregon nurserymen to begin looking into the costs and availability of fumigation equipment which will meet the Canadian specifications. Considerable Oregon nursery stock is shipped into British Columbia.

Portland area nurserymen who attended the A. A. N. convention at Miami were Avery Steinmetz and Paul Van Allen, Portland Wholesale Nursery Co., Portland; Martin Holmason, Pacific Coast Nursery, Portland; J. Frank Schmidt, Jr., J. Frank Schmidt, Jr., Nursery, Troutdale; Robert Mullison, A. McGill & Son, Fairview, and James Doty, Doty & Doerner Nursery, Inc., Portland.

A meeting of the Emerald Empire chapter of the Oregon Association of Nurserymen was held recently at Eugene. The following new applications for membership were received and later approved by the O. A. N. board of directors: Parker Greenhouses, Eugene; the Garden Shop, Eugene; Gilmour Gardens, Noti, and Milliorn Greenhouses, Eugene. According to Reed Volstedt, Reed's Garden Center, chapter president, considerable interest was shown in the coming O. A. N. convention at Gearhart September 3 to 5. Paul Van Allen, president of the O. A. N., and Peter Nuffer, past president and a member of the board of directors, attended the meeting to explain the chapter organization program to new members. Ed Cross, Cross Landscape Nursery, served refreshments.

The July 7 issue of the Oregon Journal Northwest Living magazine carried a story about lily hybridizing by Jan de Graaff, Oregon Bulb Farms.

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*Samuel Cabot*

memorating the Portland Wholesale Nursery Co.'s 50th anniversary was put in the mail recently. The pamphlet traced the history of the firm from the time it was started in 1907, with Albert Brownell as the first manager. Avery Steinmetz is the present president and manager, having held the two posts since 1933.

Mr. and Mrs. Gerald H. Pinckney, of John Waterer, Sons & Crisp, Ltd., Twyford, Berkshire, England, were recently guests of Mr. and Mrs. Wayne E. McGill, A. McGill & Son, wholesale nurserymen, Fairview, Ore. Mr. Pinckney has been observing various American nursery operations, both wholesale and retail, to learn more about growing and marketing methods in this country. The firm represented by Mr. Pinckney is one of the largest retail nurseries in England.

Joe Klupenger, Klupenger Nursery, Portland, program and entertainment chairman for the convention of the Oregon Association of Nurserymen, is completing the program for the meeting at Gearhart, Ore., September 3 to 6. The summer convention is principally devoted to recreational and social activities, but there is also a serious aspect to it. Opportunities for relaxation will be provided by a golf tournament, swimming, ping-pong, dancing and horseback riding. There will also be an abundance of good food.

Illustrating the value of the public relations program carried on by the American Association of Nurserymen, a 2-page article in the June 23 issue of the Sunday Oregonian Home and Garden magazine emphasized outdoor living and quoted information received from the A. A. N.

C. H. P.

### OREGON NURSERYMEN FETE GARDEN CLUB LEADERS

Many of the leading nurserymen of the Portland, Ore., area entertained the officers, directors and other leaders of the Men's Garden Clubs of America for cocktails and dinner during the organization's recent convention at Portland.

Those participating, of Portland unless otherwise noted, were: Mrs. Frances Benson, Van Hevelingen Nurseries; Mr. and Mrs. Henry Hausch, Roseway Nurseries, Beaverton; Mr. and Mrs. Robert Schreiner, Schreiner's Iris Gardens, Salem; Mr. and Mrs. Rholin Cooley, Cooley's Iris Gardens, Silverton; Mr. and Mrs. Walter Marx, Walter Marx Gardens, Boring; Avery Steinmetz, Portland Wholesale Nursery Co.; Mr. and Mrs. Walter Dimm, Sweeney, Krist & Dimm; Mr. and Mrs. Wayne

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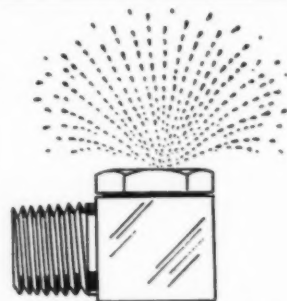
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McGill, A. McGill & Son, Fairview; Mr. and Mrs. Mike Dering, Peterson & Dering, Scappoose; Mr. and Mrs. Jan De Graaff, Oregon Bulb Farms, Inc., Gresham; Mr. and Mrs. Carl Du Bosch, Bowman-McHutchinson Co., and Mr. and Mrs. Edgar Kline, Kilkare, Lake Grove.

The Men's Garden Club of Portland, under the leadership of its president, Dr. Charles Wilson, served as hosts to the convention. Those attending visited many of the nurseries in the area and viewed the Portland rose festival events.

The Men's Garden Club gold medal—its highest award for a professional horticulturist—was awarded to Jan De Graaff for his epoch-making work with lilies and daffodils. The Johnny Appleseed award for an amateur gardener went to Dr. A. H. Hermann, Denver, Colo.

Dr. R. C. Allen, director of Kingwood Center, Mansfield, O., was elected president to succeed Charles J. Hudson, Jr., Atlanta, Ga. Dr. Allen was formerly on the faculty of Cornell University, Ithaca, N. Y., and served as executive secretary and editor for the American Rose Society. He has long been a leader in the horticultural field and is on the executive committee of the American Horticultural Council.

George Spader, Morrisville, N. Y., was named executive secretary of the Men's Garden Clubs of America by the board of directors.

#### L. S. U. LANDSCAPE SEMINAR

[Continued from page 14]

scape Association. The president, B. T. Chapin, landscape architect, Baton Rouge, presided.

In the evening session, Professor White led a discussion panel on "Popular Interest in Professional Landscape Architecture." The discussion material was divided into two parts, that of outlining the services and objectives of the profession and that on methods of attracting students to this field in college study.

Professor White stated that the main objectives of the profession are the development of land forms and the structures on it for the fullest in human use and enjoyment. He further stated that the techniques used by the profession are unique and no other profession is so well equipped to accomplish its work. Landscape men must collaborate with workers in related professions—architects, engineers, nurserymen and landscape contractors—and this is the real basis for the continued success of the profession, it was said.

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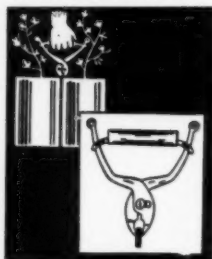
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varied. Many positions, particularly in the southern states, are going unfilled because of lack of trained personnel. In public service, the national parks system needs many trained men in its expansion program, known as operation 66. State and federal highway offices need landscape men in the new interstate highway system program.

In the second part of the discussion, methods were outlined for a concerted program of attracting high school students into the colleges for higher education in the landscape field.

### View Contemporary Plantings

Sunday's activities started at 6 a. m. with an extensive tour of points of landscape interest in and around Baton Rouge. The group visited many residential, public and industrial plantings of contemporary nature. Landscape styles combining the old and new in the contemporary manner were compared and analyzed. Returning to Pleasant hall, the group renewed the discussion and lecture sessions. Leading off, Professor White talked on "The Natural History Base of Landscape Architecture, with Emphasis upon Plant Ecology." The ecological aspects of nature, or the balance of nature, should be one of the most important courses of study in a landscaping curriculum and is one of the most valuable tools of the landscape architect, the speaker said. All landscape work—the use of plant materials, especially—is based on biological societies.

The interstate highway system project was discussed in detail. It was pointed out that everyone in the landscape field is in an advantageous position to see that the natural beauty of the new highways is protected. These highways can show to all future drivers the true character and ecological types of the countryside, if the roads are properly developed and protected.

Prof. Alan Cheetham, of the L. S. U. department of geology, then presented "Geological Base of Landscape Architecture," showing how important a tool geology can be to the landscape man, as he is constantly working with land forms, soils, rocks and meteorology.

### National Parks Program

Appearing on the Sunday afternoon program that preceded the summer arts festival address by Professor White was William W. Wells, associate director of the Louisiana state parks and recreation commission, who gave an illustrated lecture on the huge 10-year program of ex-

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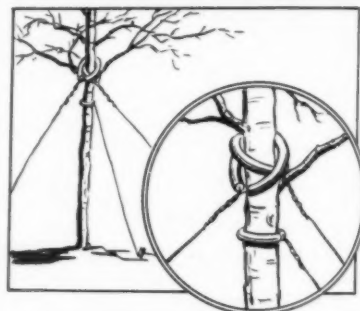
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pansion and improvement of the facilities and services of the national park system. This project has special significance, as a great deal of the planning and supervision of the work program is being done by landscape architects in the employ of the national park service. The main objectives of the project are to provide adequate and modern facilities for park visitors and park and concessions personnel, to develop a system of entrance roads and highways into and between the parks, to preserve the wilderness aspect and the naturalistic landscape, to provide an adequate annual operating program (in this connection 500 new field personnel were to be hired by the park system in July) and to develop a national recreation plan. One of the major projects now under way is the restoration and re-landscaping of the area around Independence Hall, in Philadelphia.

Ted E. Landry, landscape architect with the Esso Standard Oil Co., showed his own colored slides of the residence, workshops and grounds of the world-famous architect, Frank Lloyd Wright, at Phoenix, Ariz.

#### Future Needs

One of the most active and interesting sessions of the seminar, held Sunday evening, featured a symposium by Dr. Rudolph Heberle, Boyd professor of sociology; William B. Singleton, city planner, Baton Rouge, and Richard McEwen, landscape architect and director of the Baton Rouge planning commission. The subject under discussion was "Human Ecology, City Planning and Landscape Architecture." Problems in human reactions and relationships of the masses to public recreation and parks were traced from earliest developments in European cultures to the present. The discussion was then geared to the planning for future needs for an expanding population with ever-increasing leisure.

Recreation facilities must be planned for three distinct age groups; namely, children, youths and adults. It will be necessary to plan in the future for increased recreational facilities for the older age groups, because people will live longer, be healthier and more active than are older people today and will retire at a younger age.

With changing times, recreational planning and needs will change also. Reservations of recreational areas in the fringe regions surrounding the cities are far behind the anticipated needs. Anticipated standards indicate the need for 12 acres of recreational space for each 1,000 persons, with three acres of neighborhood

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**GROWERS SIGN SERVICE, Dept. AN-1, Tallmadge, Ohio**

Gentlemen: Please send, without obligation, illustrated folder and price list for SALES BOOSTER SIGNS.

Name.....

Street.....

City..... Zone..... State.....

#### FERTO-POTS

	MILLIONS USED PLANT EATS POT Per ton C.L.
FERTO-GERM, Compost, Manure.....	\$ 48.00
MULCHNUR, 3-6-3 All Organic.....	60.00
BONE MEAL RAW INT.....	60.00
GARBAGE TANKAGE, 3½ per cent Am.....	18.00
SE-80-PHOS, 20 per cent T.P. Acid.....	18.00
FEATHER TANKAGE, 17 per cent Am.....	130.00

Write for Price List, Small Quantities.  
**ALLEN CO., PITTSFORD 3, N. Y.**

*Ideal Garden Gadgets...*

Metal label markers with heavy-duty steel stakes and aluminum labels.

Send for folder today.

**LANSING SPECIALTIES MFG. CO.**  
Prpt. AN 57, 918 Clark Rd., Lansing 17, Mich.

playground space for each 1,000 children.

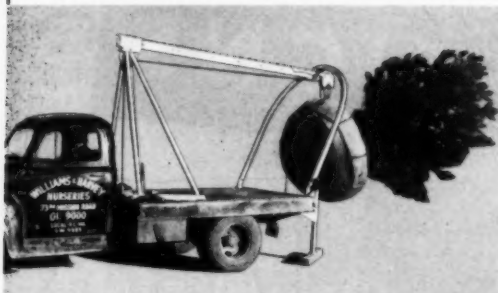
Residential swimming pools came into the discussion as big business for landscaping nurserymen and landscape contractors. It was estimated that 45,000 new swimming pools will be constructed in the United States within the next 10

years. Landscape men were cautioned, however, that they must become thoroughly familiar with minimum health and safety standards in pool arrangement and design or be subject to some costly lawsuits.

In the discussion on industrial expansion, it was brought out that one of the greatest fields for the land-



## BIG-TREE MOVER



Since Williams & Harvey announced this new, improved big-tree mover four years ago, leading nurseries, tree surgeons and park departments in all sections of the U.S. have adopted it.

- New Lighter Weight
- Simpler to Operate
- Two Sizes, 6 Ft. and 7 Ft.
- Quickly Demountable
- Fits Any Standard Truck

Write for specifications and address of users near you.

Six-foot mover (as pictured) complete with power winch and all needed pickup parts, **\$1,675.00** F.O.B. Kansas City, Mo.



### WILLIAMS & HARVEY NURSERIES

Mail address: P. O. Box 8822, KANSAS CITY, MO.

Nursery location: 7313 Mission Rd., Phone: ENdicott 2-8000

## BE YOUR OWN BOSS!

Become a Landscape Specialist in Your Spare Time at Home!

American Landscape School's low-cost, home-study methods help you to become independent quickly. You learn the newest, most modern landscaping methods and trends. You become proficient in garden design, drafting, mapping and field work. You improve your knowledge of horticulture, construction, superintendence, salesmanship and office practices. Hundreds of graduates have increased their income, earned new prestige in their communities.

### 45 GENEROUSLY ILLUSTRATED LESSONS →

Nine valuable, up-to-date textbooks filled with new ideas! Thorough preparation in 8 to 12 months. 50 imprinted business cards, monthly letter, consultation service, dictionary FREE to all students! Drafting set given FREE with advance full payment. 41st year. PRINT NAME AND ADDRESS IN COUPON FOR FREE BOOKLET.

### AMERICAN LANDSCAPE SCHOOL

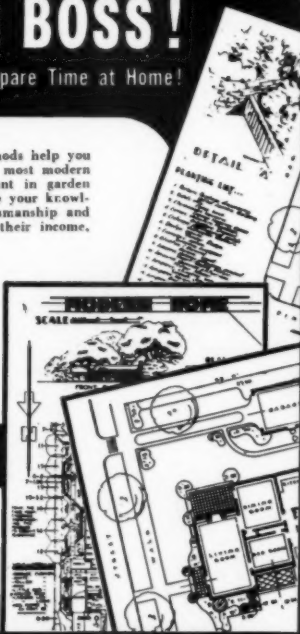
Dept. 287-A, 4508 Franklin Ave.  
DES MOINES 10, IOWA

Please tell me how I can become a successful landscape specialist. Send me free booklet.

Name.....

Address.....

City..... State.....



### NURSERICANS...

The Modern Steel Container  
(trade designated as one, two and three-gallon sizes.)

THE LERIO CORP.

MOBILE 6, ALA. VALDOSTA, GA.

### The "HUMIDOMIST" SYSTEM for INTERMITTENT MISTING

Circular 566A tells the story.

SUPREME ELECTRIC PRODUCTS CO.

194 Vassar St. ROCHESTER 7, N. Y.

scape nurseryman is industrial landscaping. Tax exemption is not the only factor industry is looking at. Most industrialists will not locate in a city that has no zoning ordinances or a modern city plan to provide stable protection for a development. Other considerations are a labor pool; traffic control; transportation by rail, road, air and water; technological personnel; utilities; fuel; services, and communities' attitude toward industry.

### Forest Preserves

The evening symposium indicated interest in the revival of town or city forests. Patterned after the old town forests of Europe, which are still important factors in the culture of Europeans, public forests should not be considered for economic returns but for social benefits, mainly to the youth class, measured in health, pleasure and improved standards of living.

The last day's session, which closed in midafternoon June 24, was devoted mainly to a workshop conducted by Professors White, Harris and Reich on the latest teaching methods for students in landscape architecture.

Two social events highlighted the seminar session. Saturday evening a fish fry, and Sunday evening, a chicken dinner, were enjoyed by all. Both dinners were prepared and catered by the landscape students and graduate assistants of Dr. Reich. These delightful affairs were held at the new contemporary home of Dr. and Mrs. Reich, in the traditional southern style of dinner on the grounds.

### SOYBEAN CYST NEMATODE

Subsequent to a public hearing held January 31, 1957, the United States Department of Agriculture proposes to establish a quarantine because of the soybean cyst nematode to apply to the states of Missouri, North Carolina and Tennessee. No nurseries are involved in the infested areas so far. Under the proposed quarantine, only those counties, townships or farms within the boundaries of which this nematode has been found will be regulated.

The U. S. D. A. recently announced a public hearing concerning a similar quarantine for the states of Arkansas and Kentucky, where the nematodes have also been discovered. This hearing was to have been held July 24 at Memphis, Tenn.

Report of the quarantine action in the June News Letter of the American Association of Nurserymen calls nurserymen's attention to the danger of introducing the soybean cyst



# HERE IS WHY NURSERYMEN PREFER MENNEPOTS



## Superior Strength

Sturdily constructed, the MENNEPOT withstands hard handling.

## Stapled Bottom

Comes completely assembled . . . Potting can start immediately upon arrival.

## Light Weight

The MENNEPOT is economical to use. Light weight makes shipping costs less.

## Drainage

The side-drainage feature makes waterlogging impossible while standing in salesyard.

### Size 0

Top . . . 4 ins.  
Bottom 3 1/2 ins.  
High . . . 4 ins.  
Weight per 100  
Regular 10 lbs., Heavy 25  
Regular Weight Price  
100..\$2.75 1000..\$25.00  
Heavy Weight Price  
100..\$3.75 1000..\$35.00

### Size 0 1/2

Top . . . 5 ins.  
Bottom 4 ins.  
High . . . 5 ins.  
Weight per 100  
Regular 13 lbs., Heavy 30  
Regular Weight Price  
100..\$3.50 1000..\$32.50  
Heavy Weight Price  
100..\$4.50 1000..\$42.50

### Size 1

Top . . . 6 ins.  
Bottom . . . 5 ins.  
High . . . 6 ins.  
Weight per 100  
Regular 15 lbs., Heavy 35  
Regular Weight Price  
100..\$4.00 1000..\$37.50  
Heavy Weight Price  
100..\$5.25 1000..\$50.00

### Size 2

Top . . . 7 ins.  
Bottom 5 1/2 ins.  
High . . . 7 ins.  
Weight per 100  
Regular 24 lbs., Heavy 55  
Regular Weight Price  
100..\$4.50 1000..\$42.50  
Heavy Weight Price  
100..\$5.75 1000..\$55.00

### Size 3

Top . . . 8 1/2 ins.  
Bottom 6 1/2 ins.  
High . . . 9 ins.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100..\$5.00 1000..\$47.50  
Heavy Weight Price  
100..\$6.25 1000..\$60.00

### Size 4

Top . . . 10 ins.  
Bottom . . . 8 ins.  
High . . . 10 ins.  
Weight per 100-120 lbs.  
100..\$11.00  
500..\$32.50 1000..\$100.00  
\*Heavy Only—  
For trees and shrubs.

### Size 5

Top . . . 12 ins.  
Bottom . . . 10 ins.  
High . . . 12 ins.  
L.G. POT  
Weight per 100-250 lbs.  
20..\$30 ea. 100..\$27.50  
500..\$125 1000..\$225  
\*Special for extra-heavy  
trees and large shrubs.

### Size Pan

Top . . . 8 1/2 ins.  
Bottom 7 1/2 ins.  
High . . . 9 ins.  
P.A.V.  
Weight per 100  
Regular 30 lbs., Heavy 70  
Regular Weight Price  
100..\$5.00 1000..\$47.50  
Heavy Weight Price  
100..\$6.25 1000..\$60.00

## Distributors

### NEW YORK

Jackson & Perkins Co., Newark, N. Y.  
Gar Prod., Inc., Queens Ave., Lindenhurst (Long Island), N. Y.

### OHIO

Skoll Distributing Co., 500 E. 99th St., Cleveland, O.  
I. G. Harmon & Son, 1800 19th St., Canton 4, O.

### PENNSYLVANIA

E. C. Gelger, North Wales, Pa.  
Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa.  
Rt. 88, S. Park, Pittsburgh, Pa.

### NEW JERSEY

New Jersey Farm Supply, 449 Market St., East Paterson, N. J.  
Somerset Rose Nursery, Inc., New Brunswick, N. J.

### MICHIGAN

Michigan Bulb Co., 845 Ottawa, N.W., Grand Rapids, Mich.  
Growers Exchange, Inc., P. O. Box 397, Farmington, Mich.  
Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.

### RHODE ISLAND

American-Dutch Trading Co., Inc., 47 Codding St., Providence, R. I.

### CANADA

The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

500 of a size takes 1000 rate in sizes 0-0 1/2-1-2-3-Pan. Regular-weight pots packed 100 and 200 per carton in sizes 1-2-3-Pan. Size 0, 250 only. Size 0 1/2, 200 only. Heavy pots are packed 250 per carton in size 0; 100 per carton in sizes 0 1/2 and 1; 50 per carton in sizes 2, 3, Pan and 4, and 20 per carton in size 5. NO BROKEN CARTONS.

SEND \$1.00

FOR COMPLETE SET OF 14 SAMPLES.

## THE MENNE-POT, INC.

NORTH TONAWANDA, N. Y.

Phone Ludlow 4444

Prices Vary Slightly in Areas Served by Distributors  
DISTRIBUTORSHIPS OPEN IN SOUTHERN STATES

nematode into nursery soils where soybeans are used as a cover crop. Introduction of the pest into a nursery will undoubtedly result in a rigid quarantine of the establishment, it is said. It is advisable, therefore, for nurserymen who have been accustomed to use soybeans as a cover crop to search for some other legumes as a substitute, the report adds. County agents will give advice in the matter.

## STUART CONSENT ORDER

A consent order prohibiting C. H. Stuart & Co., Newark, N. Y., and its affiliated companies from using deceptive landscaping services to sell nursery products was approved by the federal trade commission June 14, it is reported in the June News Letter of the American Association of Nurserymen. The agreement was for settlement purposes only and did not constitute an admission by the company that it had violated the F. T. C. act. Among other things pro-

hibited was permitting salesmen to use literature, instruments or other materials furnished by the companies in such manner as to pass themselves off as experts or professionals in landscaping or horticulture.

## NEW FHA STANDARDS

The FHA has released the third draft, dated May 10, 1957, of its minimum property standards for properties of one and two living units (chapters IX through XIII), according to the June News Letter of the American Association of Nurserymen. The article adds:

"Section 1308 and its various subdivisions deals with trees and shrubs. The objectives of this section are 3-fold: To provide plantings which will (a) screen objectionable views, (b) provide shade for occupants and (c) provide an attractive setting for the dwelling.

"The FHA field office determines the necessity for screening objectionable views. At least one shade tree

must be provided for each plot. Foundation planting must be provided when normally required by local practice. Existing plantings may suffice if suitable and in good condition.

"Plants must be suited to soil and climate conditions. Stock shall be nursery grown, healthy, well branched and free from scars and injurious diseases and insects. American Standard for Nursery Stock is recommended as a guide for specifications. Nursery stock shall be B&B, bare-root or container-grown according to accepted nursery practice."

JACOBY'S NURSERY, formerly known as Jacoby's Mid-West Nursery, moved recently from Detroit, Mich., to 12152 Merriman road, Livonia, Mich.

REMODELING is under way at Elder's Calmay Nursery, Miami, Fla., to expand the firm's propagating facilities. The landscape department is being discontinued.



## THE CASH REGISTERS ARE RINGING ACROSS THE COUNTRY!

Yes, cash registers across the nation are ringing up sales for nurseries and garden supply shops where PATIO WOOD California Redwood planters and tubs are sold. PATIO WOOD products are a double-profit item. You sell the planter—then the plant! PATIO WOOD products are nationally pre-sold in leading consumer magazines. Orders are already waiting to be turned over to dealers. We have dealership openings. Write today for complete catalog, price list and sales aids. Sell the Redwood planters all America asks for and let your cash register ring for YOU! Avoid disappointment—write TODAY!



## PATIO WOOD PRODUCTS

835 Commercial St. • San Gabriel, Calif. • ATLantic 7-9374



## THIS BIG HAND TRUCK

Will Save You Money

Handle heavy jobs easier, faster, with fewer men. Get into places otherwise inaccessible to heavy equipment, without damage to established lawns.

HANDLES 40-INCH BALL  
1500 LBS.

Write for folder giving details and prices.

### THE GARDEN SHOP, INC.

6315 W. 75th St.  
OVERLAND PARK, KAN.

Phone Niagara 2-4838 (Kansas City, Mo.)

We Make  
3 Sizes  
of Trucks

Built to  
Handle  
B&B  
Material

### A. M. LEONARD & SON PIQUA, OHIO

Knives • Shears • Pruning Tools  
Nursery Spades • Grafting Supplies  
WRITE FOR CATALOG

### JIFFY-POTS AND PLANT BANDS FOR NURSEYMAN

Write for Literature  
Bob Chase, Nursery Representative  
GEO. J. BALL, INC.  
West Chicago, Ill., Phone 299

## Licensing Act For Tree Experts In Illinois

Senate bill No. 65 of the 70th general assembly in the state of Illinois, for an act to license and regulate tree experts, to provide penalties for the violation thereof and to make an appropriation therefor, has been signed by Gov. William Stratton. In consequence, after December 31, 1957, any person engaging in the business of a tree expert in the state must have a license issued by the state department of registration and education.

The following fees for a license are called for by the act: For an original license to an individual, \$25; for an original license to a partnership or corporation, \$5; for an annual renewal license, \$5, and for each branch office license, \$5.

Nonresident applicants must consent to the filing of action against them in any appropriate court of any county or municipality of the state in which the plaintiff resides or in which some part of the transaction occurred.

Licenses will be issued for the term of one calendar year and must be renewed during the month of December of each year. Provision is also made for renewals after intervals following expiration. Display of the license in a place of business is required.

Besides having the knowledge and qualifications required of a tree expert by the act, applicants must be at least 21 years of age, be citizens of the United States and have a good reputation for honesty. At least one partner in a partnership and one director or officer in a corporation must have a license issued by the department. Applications by individuals for original licenses must contain information on education and physical infirmities, give bank and professional references and report any previous license revocations or suspensions.

### Knowledge Required

Applicants for an original license, except as provided for persons presently engaged in the field, must pass an examination, which will be given once each year. In this test, the individual will be expected to show his ability to identify trees common to the region and describe the normal, healthy form of the trees and their normal length of life; state factors in maintaining tree health; describe

## "Royerated" Compost...

### FOR STRONG, HEALTHY, TOP-PRICE PLANTS



Florists and nurserymen everywhere vote Royer Shredders their most valuable aid in the preparation of *really good compost*, the kind that can mean the difference between average and top-price plants. Once through a Royer your compost is uniformly sized, mixed and aerated, light and fluffy—and with all trash removed.

Your Royer will save you time and money on this operation, too. "Royerated" compost takes only  $\frac{1}{8}$ th the time to produce as does manually mixed compost. You'll reduce time and labor costs by 89 per cent. At today's high labor wage, this savings can pay off your original investment in a very short time. After that, thanks to *really rugged construction*, your savings will continue for years.

Thousands of growers have taken advantage of this tremendous savings—why don't you? There's a size for every need, from the 4 to 6 cu. yds./hr. shown above, to the 12 cu. ft. bucket charge model. You can choose your drive, too; Royer Shredders have electric or gasoline motors built-in or a crowned pulley for flat belt drive.

Write today, for descriptive literature and the name of your local distributor—he will be glad to give you an on-the-spot demonstration. Without obligation, of course.

**ROYER FOUNDRY & MACHINE CO.**

182 PRINGLE STREET / KINGSTON, PENNA.

functions of tree parts; recognize symptoms of injury and disease and pest attacks; know the trees' relative susceptibility to injury; demonstrate tree treatment techniques; state basic chemical elements needed by trees; state fertilization principles; state spray and dusting techniques and operate application equipment. Examinations will not be required of those who apply for licenses within one year of the effective date of the act if they have been engaged in the occupation of a tree expert within the state for five consecutive years or more.

#### Revocation Bases

The chief points on which licenses may be revoked by the department are as follows: Evidence of material misstatement in the application; disregard of the rules of the act, allowing misuse of a license, conviction of crime involving fraud, disregard of safety or other labor laws, making misrepresentations in connection with the business and failing to possess the qualifications required by the act.

The act further sets up a tree expert examining board of five individuals to be appointed by the director of the department of registration and education. Two members of the

## The Original SWISS ROTARY TILLERS



### GROWERS' CHOICE FOR TWO GENERATIONS

**UNBREAKABLE, CLOG-PROOF DIGGING TOOLS  
REVERSE-A-MATIC DESIGN FOR ATTACHMENTS**

Write for details of new models or repair parts for old models.

**E. C. GEIGER CO. P.O. Box 270 NORTH WALES, PENNSYLVANIA**  
U. S. A. Distributor

examining board must be arborists with at least 10 years' experience in the profession, one member must be an entomologist, one a pathologist and one a representative of a municipal forestry or park department.

Rules for hearings on complaints, as well as the method of providing review of decisions, are detailed in the act. Punishment for violation of provisions of the act are set at a fine of not more than \$200, or imprisonment for not more than two months, or both, for an individual, and a fine of not less than \$500, for a corporation.

The sum of \$25,000 was made


available for the purpose of administering the act.

L. H. WILLIS, Hyattsville Nursery, Hyattsville, Md., announces the establishment of a garden center on the salesyard at 3421 Hamilton street.

RIVERHILL NURSERY is the name of a business now being operated on two acres by R. H. Creasy & Sons at Catawissa, Pa. The establishment includes the nursery that had been conducted by the late Luther P. Creasy. Ornamental evergreens are the chief items of production.



You'll move more bales!



You'll make more

With

**DETORF**  
GARDEN PEAT

**SUPERIOR GERMAN SPHAGNUM PEAT** from the famous Detorf bogs is the world's standard of quality. Detorf is genuine broadleaf Sphagnum type moss that absorbs 15 to 20 times its weight in water. It is sun cured, properly processed, and securely packed in high-compression bales. Standard bale fluffs to mulch 150 sq. ft. two inches deep.

**NO HANDLING HEADACHES** with DETORF. Tremendous production capacity plus prompt order handling plus fast ship-

ment insure delivery of Detorf to meet your every sales demand. Each bale is quality controlled, marked for size and securely bound.

**LIBERAL PROFIT MARGINS** are assured by Detorf's mass production economies that are passed on to you in fair pricing. Polyethylene bags and handy cartons are available for repacks—to increase your sales and profits.

## J-M TRADING CORP.

111 W. Jackson, Chicago 4, Ill.  
Tel. WABash 2-2065

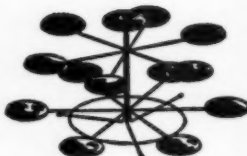
WRITE, WIRE, OR  
PHONE FOR  
PROMPT OR LATER  
SHIPMENT

SEND FOR YOUR NEW  
FULLY ILLUSTRATED CATALOG

### IT'S NEW

#### TABLE MODEL TREE STAND

6-POT SIZE  
\$3.00 each  
12-POT SIZE  
\$5.00 each  
18-POT SIZE  
\$8.25 each



#### ORDERS DELIVERED FREE TO DESTINATION AS FOLLOWS:

CALIFORNIA—All orders \$25.00 and over.  
ARIZONA • NEVADA • OREGON—Orders \$35.00 and over.  
ALL OTHER STATES WEST OF MISS.—Orders \$30 and over.  
ALL STATES EAST OF MISS.—Orders \$75.00 and over.

CONTAINS HUNDREDS OF ITEMS  
THAT MAKE MONEY FOR YOU!

Wire and Redwood baskets; Redwood tubs;  
Wire and fernwood totem poles;  
Plant supports;  
Wrought-iron brackets and fern stands;  
Plastic and lead flower pin frogs;  
Can cutters;  
Green moss in bales and bags;  
Black Magic; Plant ties and twine;  
Plastic pots and trellis;  
Copper, brass and plastic planters;  
Wire plant markers and plastic plates;  
Other nursery supplies.

CATALOG IS FREE—SEND TODAY

### WIRE BASKET CO.

814 W. 58th St.  
LOS ANGELES, CALIF.  
Phone PLeasant 8-7496



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O M SCOTT & SONS

COMPLETE  
GROWERS'  
SUPPLIES

**American Bulb Company**

NEW YORK 17  
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1335 W RANDOLPH ST  
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### IT COSTS NO MORE

(and in most instances less)

FOR OUR PACKING OF  
**Nursery Burlap  
Squares and Rolls**

Write for prices and samples

**L. ATKIN'S SONS**  
P. O. Box 167 Rochester, N. Y.

## Plan to Revise New York Quarantine Law

The New York State Nurserymen's Association is directing efforts in the state to obtain revision of its plant quarantine law. The association has suggested revisions and the membership has endorsed them at meetings that have been held throughout the state for the presentation of ideas and discussion.

Not all nurserymen in New York have been reached, however, as not all belong to the association. Invitations are therefore being extended to all New York nurserymen, according to Sidney E. Bennett, secretary, to attend the association's summer meeting at Farmingdale August 12 to 14, so they can review the proposed changes and offer constructive criticism and suggestions.

### Proposals

The proposed act provides for the complete definition of terms, including, among others, those for native plant collectors and nursery dealers. Some of the important additions not found in the present law follow:

Dealers in and handlers of nursery stock would be required to make application before April 1 of each year for nursery inspection and certification. Persons receiving nursery stock from another state or foreign country would be required to notify the commissioner of agriculture and markets of its arrival and hold the shipment a stated period for inspection. Offering for sale of dead nursery stock or stock too seriously weakened by drying, heat or cold to grow properly would be deemed a violation of the act.

License fees, to be set by the industry, would be required of each person or firm selling nursery stock, payable on or before October 1 of each year. The commissioner would have the power to withhold, suspend or revoke any license or certification for sufficient cause, including any violation of the proposed act.

Marking of collected stock by a tag, to be furnished by the commissioner, would be required. The tag would be paid for by the collector and would have to be left on the plant after replanting. Transporting of untaged collected stock in vehicles on highways would be prohibited, and the cooperation of highway police in enforcing the requirement



# Screen Type PICKET FENCE

## ... ADDS PRIVACY TO YOUR LANDSCAPING

Most homes need special screening against unsightly views, around play areas, swimming pools or for containing small animals. Form nice backgrounds for plantings. Dowel construction—easy to assemble. Stringers, posts and half-round palings all peeled, white cedar. Shipped K. D. or in 8 ft. assembled panels. Write for catalog giving heights, etc.



**Also** Catalog shows Old English Post and Rail Fences — 2 to 5 rail — all types. Have installations throughout U.S.A.

Gates, Lanterns, Rustic Tables and Settees.

Shipped from Toledo or our W. Va. Yards.

**WOOD PRODUCTS CO., Toledo, Ohio**

would be sought. Advertising collected stock for sale would necessitate labeling the stock as collected and not nursery-grown.

Insects, fungi, bacteria, nematodes, viruses or other living plant parasitic organisms would be prohibited entry into the state without a permit for the shipments from the commissioner.

### GROUP ACCOUNTING PLAN [Continued from page 7]

all tend to bring the gross profit down.

It was felt that the handling of any store item carrying less than a 40 per cent markup (based on selling price) should be discouraged. Since these latter items are not perishable and do not take constant care, they can be sold at a lower markup than can nursery stock.

Examining the items deducted from the 45 per cent gross profit, one finds some interesting figures. As is to be expected, labor is the highest single percentage in this group. The only ways to lower that figure are to hire more efficient help, to use mechanization and to employ better layouts. Better help and mechanical aids, coupled with better nursery layout, as discussed in an earlier

article, can reduce the amount of over-all labor needed and reduce this high percentage figure. Better salesmen can make better sales and thus reduce the selling cost.

Advertising is the next highest item. The figure of 3.5 per cent is certainly not out of line and may be too low. Some firms spend 5 per cent and feel that the figure is justified. Better usage and budgeting of the advertising dollar is the only way to get the most for one's money. The

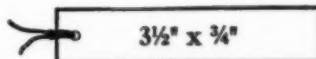
employment of an advertising agency is certainly to be considered. Agency persons are trained to do a job and can often save money while increasing sales through intelligent, planned advertising.

None of the other items is large, with the exception of depreciation and miscellaneous expenditures. However, careful analysis of each may result in small savings here and there.

One item that bears scrutiny is

## ALUMINUM TAGS

(All-weather)



3 1/2" x 3/4"

- Patented cardboard backing permits easy embossing with ordinary lead pencil.
- Heavy eyelet. Copper-wired.
- Attractive silver Aluminum, backed with yellow cardboard.
- Inexpensively priced:  
1000 for... \$14.00    250 for... \$5.00  
500 for... 9.00    100 for... 2.50

### BEAT THE PRICE INCREASE!

These prices are good for all orders received before September 1, 1957. Because of steadily increasing prices of raw materials and labor we are forced to increase our price for the first time in 5 years. The new price will be \$16.00 per 1000. May we fill your fall order at the old attractive price!

PLEASE WRITE FOR FREE SAMPLES

**BERRYHILL NURSERY CO.**  
P. O. Box 696  
Springfield, Ohio

## NO SHREDDER SHREDS LIKE A KEMP

The KEMP outstanding service record is well-known among professional growers and has been for two-thirds of a century. Features pioneered by KEMP are today accepted as standard. A KEMP has fewer parts to wear and get out of adjustment, like the feature of all shredding teeth being stationary. This has proved one of the big features that keep the KEMP on the job instead of in the repair shop. The KEMP improved principle of soil shredding (not grinding) aerates and retains the moisture and nutrients for better yield.

**REMEMBER, KEMP PRICES  
START UNDER \$100.00**

KEMP capacities range from 2 to 40 cubic yards per hour. Learn more about the complete KEMP line. New illustrated, informative catalog now ready—send for your copy today.



**KEMP** SINCE 1890  
MFG. COMPANY  
ERIE, PA., U.S.A.

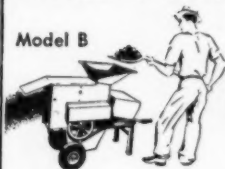
Dept. 18

1027 E. 20th St.

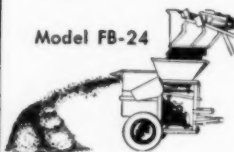
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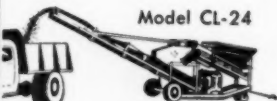
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rent. Many nursery operators who own their property and buildings neglect to charge any rent against their operation. This is false book-keeping, which may be concealing the fact that the owner could sell or lease his property, invest the money at 5 or 6 per cent and gain as much net profit at the year's end—with no work involved—as he is making from the business. This is especially true of those owners who have large plots of land in busy commercial areas. To arrive at a realistic net profit figure, a nurseryman must include rent in his calculations.

### Deductible Items

Such items as taxes, telephone costs and utility expenses are not going to decrease. The item of travel and entertainment is an important one, and the nursery owner should not fail to charge off all legitimate costs to this category. These are deductible items and certainly help in reducing income tax payments. Good records should be kept in order to substantiate these claims. In this regard a good accountant or accounting firm is valuable. Like the advertising firms, the accountants can generally save more money than their services cost.

As noted on the chart, some allowance may be made under selling and delivery for the owner's time spent in this part of the business. In large operations the owner's total salary is derived from the 5 per cent management figure. In smaller operations, about half of his time is charged to selling and delivery at the going rate for that type of work; the apportionment varies with the size of operation. Some firms may be partnerships. In that case, one partner's time is usually charged entirely to selling and delivery, the other's to management. These figures are average percentages. If one wishes to compare them with his own figures, in order to see how his final income for the year compares with that of the group, he must be sure to follow the same procedure. The actual income figures of the various categories are added to obtain the total.

### Pricing

The California group feels that the net profit figure of 3 per cent should be increased to 5 per cent or better. If it is assumed that all other figures are justified, the only method of gaining higher retail profits is to charge higher retail prices. This is just what the group has done, starting soon after the common system was adopted.

The net profit rose steadily for a few years, then tapered off. This showed the need for another rise in

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prices, which was effected last year. The group feels that there has been and is at the present time too much emphasis on price in the nursery business. True, any merchant must be realistic and have promotions and specials, but these should include only expendable items. Most of the nurseryman's items are "one-shot" items, e.g., trees, lawns, etc. They are sold only once to the average customer in his lifetime, and whether he pays a legitimate price for them or buys them cheap is up to the nurserymen. These items should not be given away.

Generally speaking, a customer will not buy more of such items if they are cheap than he will if they are expensive, as he has a need for only a limited number. Therefore it behooves the nurseryman to emphasize other things besides price in selling his basic items. Longevity, quality and beauty are all appealing attributes of nursery stock. The only way that nurserymen can survive, pay decent wages and make a reasonable profit is to uphold their prices. The cooperative accounting system has demonstrated this fact to the California group.

It should be pointed out that these figures also illustrate the need for more intelligent management of nurseries. The days when the owner kept operating figures in his head are past. With increased competition and the necessity for records for governmental purposes, nurserymen must know more and more accurately where their money is being spent and where to make savings. Otherwise, the net profit will shrink instead of increase.

### NEW WILMORE MANAGER

Scott W. Wilmore, of the W. W. Wilmore Nurseries, Denver, Colo., has announced the appointment of Stephen Wayne Driftmier as general manager of the firm, effective July 1. Mr. Driftmier was formerly president of the Driftmier Co., Shenandoah, Ia., which carried on a mail-order nursery business as a part of its activities. In this previous capacity Mr. Driftmier for nine years had extensive responsibilities in supervising sales, advertising, marketing, financing, accounting and office management, experience which will be utilized in his new position. On the board of directors of the Iowa State Nurserymen's Association in 1956 and 1957, he was also chairman of the legislative committee for three years and program chairman one year.

As a nephew of the late Henry Field, Mr. Driftmier has been ex-



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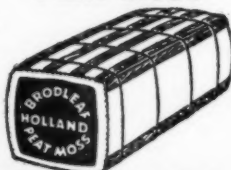
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posed to the nursery business all his life. For two years he was employed in the office of Mount Arbor Nurseries, Shenandoah, and for a year and one half he worked in a bank at Shenandoah. He received his B.S. degree in commerce from the State University of Iowa, Iowa City, in 1947, with a high scholastic ranking. A veteran of World War II, he was released from the army reserve with the rank of captain in finance, having had experience as a disbursing officer paying troops and as the fiscal and budget officer of a large military hospital installation.

Mr. Driftmier, who is 38, is married, and he and his wife are the parents of three children. He is a Mason, an Elk and a member of the American Legion.

## SUCCESSFUL "ROSE POSE"

"Rose Pose," a photographers' field day planned to promote the rose festival and rose industry at Tyler, Tex., was declared a highly successful affair June 29 by Marshall Hamil, chairman of the publicity committee of the Tyler chamber of commerce, sponsor. It is probable that the event will become an annual affair preceding the rose festival, Mr. Hamil indicates.

A total of 135 enthusiastic east Texas photographers and their wives competed for prizes this year, recording flowers and scenes at the Tyler municipal rose garden in the morning and at the rose fields of the Arp Nursery Co. near Lake Tyler in the afternoon. About 30 models, including the festival queen and her court, were provided for the two locations. Plaques and cash prizes were awarded winners in several classifications of pictures, the Arp Nursery Co. supplying the plaques.

## ILLINOIS SHORT COURSE

[Continued from page 10]

tician of the Illinois cooperative crop reporting service, spoke next. After describing the objectives and the methods being used to carry on the new nursery crop reporting service, Mr. Miller stated that estimates of supplies based on the pilot survey of the trade in five states were to be published in July, barring unforeseen delays. His comments on the work will be printed in a later issue of the American Nurseryman.

## Troublesome Weeds

Dr. F. W. Slife, assistant professor of crop production, college of agriculture, gave the final talk on the afternoon program, discussing "Troublesome Weeds." In his open-



ing remarks, Dr. Slife stated that new chemicals are being developed to prevent weeds. Some of these are expensive but are proving effective. The ultimate in weed killers is a soil fumigant that kills the weed seeds.

Methyl bromide is one of the soil fumigants. It costs around \$300 to \$400 per acre to apply the product. Vapam is another such fumigant. It is not certain, as yet, if Vapam will be as effective as methyl bromide, but it looks good.

Allyl alcohol is one fourth the cost of the first two fumigants mentioned, costing about \$100 per acre to apply. No tarpaulin is needed for application, since the product can be applied directly to the soil. It is effective on weed seeds. Mylone is another new soil fumigant.

If a soil fumigant is not used, the weeds must be killed before they come through the ground. For this pre-emergence method of weed killing, 2,4-D has been used; however, it is not good for nursery stock. Dinitro-chlorophenol cannot be used on smaller plants, since they will not tolerate it. These chemicals should be applied to the soil when the weeds germinate. They are then exposed to the chemical and are killed. Dormant weed seeds in the soil are not affected.

The pre-emergence treatment is not permanent; applications must be made again and again. SES has been quite effective, and most nursery stock will tolerate it. Once it gets into the soil it breaks down into 2,4-D acid. CIPC, another such material, has been on the market for four or five years and has been used for weed control in nursery stock. Some interest has been shown in naphthyl phthalamic acid, but SES is the most promising of the pre-emergence chemicals.

#### Other Products Used

Randex is good on annual grasses. This pre-emergence chemical is relatively inexpensive to use, costing about \$12 per gallon. Simazin is also good. An application (two pounds per acre) in the spring is usually adequate on annual grasses and broad-leaved weeds for the entire season. It has not been evaluated on nursery stock. Dowpon and propionic acid are useful for quack grass. The two last-named chemicals do not sterilize the soil.

For Canada thistle, amino triazole is effective. Dr. Slife also stated that SES is good as a pre-emergence chemical if it is applied early enough in the spring so that a soil residue is present when the crab grass (which is a major problem) germinates. However, it is difficult to judge just

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when the germination takes place, since it varies so much with weather conditions. Consequently, real headway against crab grass can only be made when the plant is in the 1 or 2-leaf stage. Chemicals that are highly effective at this stage are potassium cyanate, phenyl mercuric acetate and disodium methyl arsenite. If these chemicals can be applied when crab grass is in the 1 or 2-leaf stage, maximum effectiveness will be achieved. The bigger crab grass gets, the harder and more difficult to kill it becomes.

The day's program was closed with a banquet in the Illini Union building.

### Tree Disease Problems

Dr. R. J. Campana, associate plant pathologist at the Illinois State Natural History Survey, opened the Thursday morning session, giving the group a general picture of some of the commoner tree diseases and how to combat them most effectively. Many different factors may cause diseases in trees, and the Natural History Survey does much research on a variety of them. At present, extensive work is being done on the elm troubles, elm phloem necrosis and Dutch elm disease, and on oak wilt.

He pointed out that 2,4-D injury and chlorosis are brought about by disease factors of a noninfectious nature. Chlorosis of pin oak is caused by a lack of iron in the soil or excessive alkalinity in the soil, in some cases due to a subsoil clay condition. Chlorosis becomes apparent with yellowing and dying of the thin tissues between the veins of the leaves, the lack of iron causing reduction of chlorophyll formation.

Another factor in tree troubles is direct construction injury, or alteration of site factors during construction which may weaken trees sufficiently to predispose them to easy invasion by parasitic insects and fungi. In most cases trees surrounded by concrete become chlorotic and develop dieback, because their roots do not obtain enough water. Guy wires used to support trees often are not loosened to accommodate growth of the tree and consequently they constrict and strangle the trees. Many times chemicals used as sprays on trees have a toxic reaction.

### Effects of Drought

In many cases drought, alone, seems to be the main cause of tree decline and mortality. This sometimes results in markedly reduced tree growth. Needle blight of white pine was cited as a classical example. The drought in Illinois in 1953 and

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1954 caused many evergreens to die. Water is adequate now, but because of the prolonged drought, many large trees have not fully re-established substantial portions of root systems lost during that period. It may take such trees two or three years to recover completely.

There were more leaf spot troubles this spring than ever before, because of the prolonged cool, wet spring. In addition, the wet spring's following periods of drought resulted in many root-rot problems. In some cases, serious rot has developed at the ground line, causing girdling and death of trees affected. Another adverse result of the wet spring has been an increased incidence and severity of cedar-apple, hawthorn and quince rust. Some species of hawthorn observed to be generally free of rust in previous years are badly affected now. Cedar-apple leaf rust types can be controlled by timely applications of suitable fungicides, such as ferimate and sulphur.

The two elm tree diseases mentioned earlier, elm phloem necrosis and Dutch elm disease, are both lethal. Phloem necrosis can be sudden or slow in killing a tree. The leaf hopper which transmits it breeds in the corky tissue of elms. The insects suck the sap from leaves of the infected tree and then fly to a healthy tree to feed on it, thus transmitting the disease. A tree may have phloem necrosis for many years before leaf symptoms appear. In some cases affected trees have been treated with salt, but no evidence has been found to show that salt is of any value in preventing or curing phloem necrosis.

#### Dutch Elm Disease

Dutch elm disease is prevalent throughout the state, whereas phloem necrosis occurs at an epidemic level only within the southern two thirds of the state. Phloem necrosis has laid the groundwork for Dutch elm disease, which causes branches of trees to wilt; the leaves become gray-green, then yellow, then brown, and then the tree may be completely defoliated. The trees cannot be saved by pruning, because the disease has penetrated the vascular system by the time symptoms are apparent, and it is just a matter of time before death.

A survey of new cases of Dutch elm disease on the University of Illinois campus this spring showed that 93 per cent of the trees showing symptoms had been infected last year. Chips of a suspected tree are taken into the laboratory and tested for positive confirmation of the dis-



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ease. The insect which spreads Dutch elm disease breeds between the bark and the wood. The insects are 2-tone in color and about one eighth of an inch long. Two generations of these insects are produced yearly, the first beginning by May 1. The insect feeds in twig crotches of the tree. Sanitation is highly important in controlling this disease. There are only 12 counties of the state where the disease has not been found, four new ones having been confirmed for the disease already in 1957. Dutch elm disease seems to be replacing phloem necrosis. It moves much faster.

Dr. Campana then showed a series of slides which illustrated what he had been saying. The slides showed the spread and occurrence of Dutch elm disease throughout the state from year to year. He also discussed in detail the local Champaign-Urbana and University of Illinois elm disease situation. The control program on the university campus has prevented losses of elms from Dutch elm disease by many times the numbers lost in the cities of Champaign-Urbana surrounding the campus, where no control has been practiced. The complete absence of control measures in 1956 on the campus is being reflected in many new cases at the present time. Results of the control program reactivated by the university in 1957 can be evaluated only after several years.

### Problems with Insects

Dr. L. L. English, entomologist, State Natural History Survey, then talked on "Problems with Insects." A stomach poison, such as lead arsenate, is effective for most leaf eaters and has no contact action, he said. DDT is stable and safe to use. It is highly effective on caterpillars, elm leaf beetles, sawfly larvae, leaf hoppers and thrips. DDT has some drawbacks in that it may kill parasites and predators, which results in increasing aphids and mite and, in some cases, scale insect populations.

Other useful chlorinated hydrocarbons are BHC-lindane for aphids, leaf miners and lace bugs and chlordane, dieldrin and heptachlor for grasshoppers and soil-infesting insects. Of the organic phosphates, parathion is effective against a wide variety of pests, both chewing and sucking. Malathion has a wide usefulness and is much less poisonous than parathion. It is effective on aphids, mites, soft scales, scale crawlers, bagworms and others. It is a fairly good miticide and can be used on a wide variety of plants without injury. An exception is Canaert red cedar.

Systemic insecticides are taken in

by the plant and translocated, poisoning the insect pest. The two commercially used systemic insecticides are Systox and OMPA. They are effective against mites and aphids. They are not taken up and translocated well by woody plants.

There are several good miticides that are not hazardous to use. They are Aramite, Chlorobenzilate, Kelthane and malathion. They are available as wettable powders and emulsions. When one is mixing insecticides, he should mix wettable powders with wettable powders and emulsifiable concentrates with liquids.

#### Control Recommendations

Dr. English then listed some products for the control of various insects. For control of aphids: Malathion, one quart 50 per cent to 100 gallons of water; lindane, one pound 25 per cent WP to 100 gallons of water, or Black Leaf 40. For control of thrips: Malathion, one quart 50 per cent to 100 gallons of water, or lindane, one pound 25 per cent WP to 100 gallons of water. For scale insects on deciduous plants, such as oyster-shell, scurfy, San Jose, Putnam or European elm, a dormant oil may be used. For Fletcher scale, pine-needle and juniper scale, found on evergreens, malathion, one quart 50 per cent to 100 gallons of water, should be used. Oil should not be used on evergreens.

Spruce mites, predominantly found on evergreens, overwinter in the egg stage and hatch in April or May. They are greenish, with pink legs, and their eggs are tan. The 2-spotted mite is mainly a pest of broad-leaved plants. It overwinters as an adult and is yellowish or greenish, with two irregular black spots. It is likely to be a midsummer to late summer pest. The European red mite may be a pest of apple, malus, crataegus, plum, quince, etc. It overwinters as a reddish egg, being red to almost black. For control of mites, Dr. English suggested Aramite, Chlorobenzilate or Kelthane, one and one-half to two pounds of wettable powder to 100 gallons of water.

For control of bagworms, which can best be controlled in early summer, the following may be used: Malathion, one quart of emulsion or four pounds of 25 per cent wettable powder to 100 gallons of water; lead arsenate, four to six pounds to 100 gallons of water, or Toxaphene, 60 per cent, three pints to 100 gallons of water.

For control of borers, which may be larvae of either clean-winged moths or beetles, promote tree vigor; then use three or four applications

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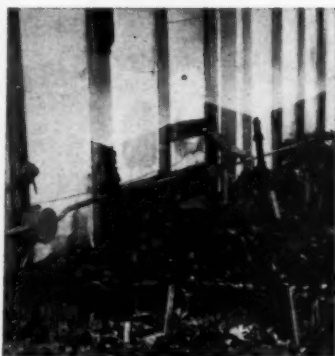
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of DDT applied to tree trunks. Begin about May 1, using one gallon 25 per cent or two pounds 50 per cent WP to 100 gallons of water (or use tablespoonful to one quart of water and paint on).

### For Gall Makers

There is no control for galls after they are found. These abnormal growths on foliage or stems of trees are stimulated by mites, midges, aphids, wasps, etc. The maple bladder gall and the pussy willow leaf gall are caused by mites. The gouty-vein gall and the marginal-fold gall are the results of midge larvae. The best way to prevent galls is to use control measures just before the buds open. Malathion and DDT are suggested.

For control of leaf eaters, such as canker worms, detana caterpillars, elm leaf beetles and sawfly larvae, which attack ash, pine, roses, etc., lead arsenate or DDT is recommended.

The black vine weevil is a nocturnal feeder and is seldom seen. It drops its eggs on the top of the soil, where larvae form and feed on the roots of plants. The adults appear in June or July, and spraying should be delayed until they emerge, about July 1. Aldrin, dieldrin or heptachlor, one pound toxicant to 100 gallons of water, is recommended for control. For soil treatments, use 10 pounds of toxicant to an acre.

For control of grasshoppers, use one-fourth pound of aldrin, dieldrin or heptachlor to an acre or one and one-half pounds Toxaphene to an acre.

In closing, Dr. English cautioned the group that no matter what insecticide or chemical was used, the label should be read and the recommendations of the manufacturer followed.

The next speaker was H. W. Gilbert, extension landscape specialist, Purdue University, Lafayette, Ind., whose subject was "Landscape Hints to Help You." Outlining first some of the areas of development of the house and home grounds that should be coordinated, Mr. Gilbert continued with a discussion of some basic concepts of landscaping, emphasizing the development of the land to show wedding of manual and artistic functions. Mr. Gilbert used colored slides to illustrate examples of applying the principles of art in actual functional situations.

Dr. F. F. Weinard, professor of floriculture, followed with a discussion of "Lawns." He declared \$2,000,000,000 is spent yearly on lawn maintenance and growing. Among the many things to consider in grow-

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ing a lawn, weed control is a major problem. This, he added, had already been covered in Dr. Slife's discussion. If difficulty arises in growing a lawn successfully, much can be learned about the cause of the problem by having a soil analysis made. The university maintains a soil-testing service where different soils may be tested to determine what may be excessive or lacking for successful lawn growth.

Many times people make the mistake of buying grass seed on a price basis. They are not sure of getting good seed. A good grade of grass seed and the physical condition of the soil are two highly important factors to consider. Soil deficiency is no problem, because fertilizer can be added to it easily.

It is important that people know when to plant grass seed. Early fall is the most desirable time, because in spring, more problems will occur with weeds. May is too late to plant seed.

#### Lawn Pointers

Dr. Weinard then showed a series of slides on various combinations of grasses that are being grown on experimental plots at the university. Some points he brought out were as follows:

(1) The area should be properly graded, with gentle slopes insofar as possible.

(2) If topsoil is available, that is good, but it is not absolutely necessary.

(3) A good seed mixture for sunny areas will contain a high percentage of Kentucky bluegrass or Merion bluegrass, or a combination of the two. Where there is shade, the larger proportion of the seed may be red fescue.

(4) It is important to keep the soil moist until the seeds have germinated and become established.

(5) Grass should be mowed whenever it is three inches high and should not be cut shorter than one and one-half inches.

(6) Do not overwater lawns. Grass is dormant much of the year, and watering will only stimulate growth of weeds. Usually watering is necessary only in July and August and occasionally in parts of September.

(7) Fertilizer containing nitrogen should be added to lawns twice a year to keep grass a uniform green color and make it dense enough to keep out weeds.

(8) Weed killers containing 2,4-D are effective against broad-leaved weeds, wild onion and garlic, etc. But be careful not to get 2,4-D on ornamentals or vegetables, as it will in-



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jure or kill these plants; 2,4-D retards the growth of newly planted grass.

(9) Reasons for a poor lawn may be: (a) Lawn was not seeded right, (b) lawn did not have proper care, (c) the soil is poor or in bad condition and (d) the environment is bad.

(10) Methyl bromide (Dowfume) is a soil sterilant that kills weed seeds. The carry-over lasts at least a year. By then a newly planted lawn is established.

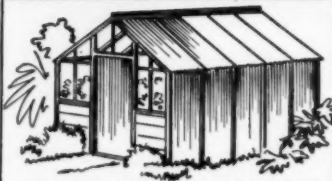
(11) Merion bluegrass germinates slowly.

(12) Fungicides and insecticides may be useful under certain conditions, but wasted effort may be avoided if they are used on the advice of a specialist on diseases and insects.

#### Mist Techniques

"Mist Propagation" was discussed as a closing topic by a panel, with Dr. J. R. Kamp, associate professor of floriculture, as moderator. Panel members were Corliss Ingels, Lafayette, Ill.; Roy Nordine, propagator,

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**OPERATING A GARDEN CENTER**  
By John J. Pinney, 128 p. (1957) **\$3.00.**  
American Nurseryman Chicago 4.

Morton Arboretum, Lisle, Ill., and Ralph Synnestvedt, Glenview, Ill.

Dr. Kamp explained briefly the history and usefulness of mist propagation. He stated that it is a method by which one can give cuttings the maximum amount of light without ill effects. Mist propagation greenhouses have no shade. There is never any difficulty with cuttings' getting too much light as long as there is enough mist on the plant.

The importance of the type of nozzle was stressed. Dr. Kamp related the difficulties encountered in propagation work at the university because of the high oxidation properties of the water, which caused the nozzles to clog. After much experimentation with different types of nozzles, the 550-A Florida "T" nozzle, manufactured by Sprayers & Nozzles, Inc., St. Petersburg, Fla., was finally decided upon as the best, and this nozzle is now used in the mist houses at the university. In this type of nozzle, three fins hold the baffle up and break the water as it comes out. The nozzle must be mounted upright. Sometimes the baffle gets gummed up, and the circle of the mist is broken; the nozzle must then be cleaned.

Cuttings planted between the greenhouses, in one of the alleys, were not successful. Because the alleys created a draft, the cuttings were not evenly watered. The previous year, when the propagation beds were located away from the greenhouse, the shifting wind currents proved advantageous in maintaining an evenly distributed mist. Continuous mist was used. For intermittent mist a timer must be used.

### Panel Remarks

At this point in the program the panel members took their places. A general question and answer period followed, with panel members and members of the group participating.

The electronic leaf was discussed. It seems effective at times and at other times not so effective. It is extensively used at the University of Illinois. A drawback in its use is the high mineral content of the water, which forms a crust between the two electrons, causing failure to work properly.

Time clocks are valuable. When the cuttings are new they require more water, but as they take root, the water can be lessened, so that by the time the plants are fully rooted they have the strength they need. Any hardwood cuttings that are rooted in the greenhouse are put in a frame, and in the spring they are put into a nursery.

The question was raised as to

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whether hormones have any effect on cuttings. Remarks from the group indicated that hormones helped rooting. Stronger hormones than would otherwise be used for maximum effect are sometimes used on the hard-to-root cuttings.

Are outdoor rootings transplanted or are they left? At the university carnation and chrysanthemum cuttings rooted in a test under constant mist outdoors were harder than those rooted indoors. They grew well when transplanted into an unshaded greenhouse and undoubtedly would have continued to grow well if allowed to remain in the propagation bed. Wet soil and the difficulty of moving propagating equipment make it impractical to leave cuttings.

What can be done about the disease problem? The soil and all tools used in the propagation benches must be thoroughly sterilized. Theoretically, the spray washes away the disease germs, but actually the beds may be infected by a diseased plant or by a disease organism carried on the hands.

Other questions pertaining to individual problems were then discussed, and the group ended the session with a tour of the university's mist propagation house.

#### FLORIDA TAX ACT SIGNED

A bill passed by the Florida legislature depriving shed nurseries, or nurseries under cover, of their former classification as agricultural lands for purposes of tax assessment was recently signed into law by Governor LeRoy Collins, according to James F. Griffin, Jr., executive secretary of the Florida Nurserymen and Growers Association.

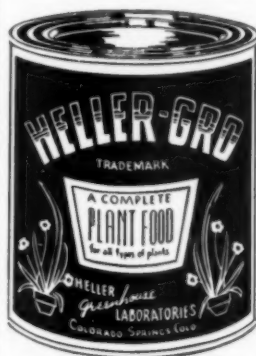
The new tax bill, described in the report of the F. N. G. A. convention in the June 15 issue of the American Nurseryman, inflicts a heavy penalty on the nurserymen of the state. The signing came despite special last-minute action on the part of the association to prevent the bill's becoming law. It is not yet known to what extent the act will be enforced following the presentations made by the F. N. G. A.

#### PUBLICATIONS LISTING

L. A. Dougherty, extension economist in marketing, cooperative extension service, University of New Hampshire, Durham, has prepared a revision of the university's Agricultural Economics Mimeograph 121, providing a partial list of magazines and society reports of interest to various horticultural groups, including nurserymen. The author suggests

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**AZALEAS: KINDS AND CULTURE** by H. Harold Hume

A source of practical up-to-date information. Chapters include propagating, soils, planting, culture and care, feeding, pruning, azaleas as pot plants, greenhouse culture, insects and diseases. 63 black and white illus.; 9 in full color. 200 pages. (1948). \$6.00, postpaid.

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that commercial growers and specialists should find good use for many of the publications listed as they are valuable for keeping one informed on latest developments in both the growing and the marketing of horticultural specialties. Listings are by subject and supply the name, frequency of issue, subscription price and publication address of the work. The release is available from the university.

**NEW HAVEN APPOINTMENT**

Lloyd V. Edgington has been appointed to the research staff in plant pathology at the Connecticut agricultural experiment station, New Haven. As part of his work, Dr. Edgington will be one of the group of station scientists continuing studies of Dutch elm disease and its control.

Dr. Edgington goes to Connecticut from the University of Wisconsin, Madison, where he had carried on plant disease research since earning the Ph.D. degree there in 1956. He was born in Iowa but had lived in California since childhood. He is a graduate of the University of California at Davis.

**SUNDAY CLOSING**

It was decided by Seattle, Wash., area nurserymen, including garden center operators, to close on Sundays in July and August. The nurseries have joined the major food retail stores in the Sunday sales ban sought by a Sunday observance committee.

CLARENCE SVENDBY, Svendby Nursery & Greenhouse, Fort Scott, Kan., has been given a 2-year assignment as forester to assist in developing nursery and reforestation programs in Colombia, S. A. Mr. Svendby will be employed under the international cooperation administration in the State Department.

ALBERT WILSON, landscape architect of Menlo Park, Calif., has accepted an invitation to address the Mexico City Garden Club. In his first talk Mr. Wilson will select plant materials from members' gardens on which he will demonstrate. In a second lecture, aided by colored slides, he will interpret principles of design and good gardening. At present, out of San Francisco, Calif., he puts on gardening TV under the caption, "How Does Your Garden Grow?" This show will remain on vacation till Mr. Wilson returns from Mexico, after which plans have been arranged for an improved program both in time and method.

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<i>Juniperus chinensis columnaris glauca</i>			
1-gal. ....	\$1.75	\$1.70	\$1.60
<i>Juniperus chinensis Maney</i>			
2-gal. ....	3.90	3.60	3.30
<i>Juniperus chinensis Mounbatten</i>			
5-gal. ....	4.25	4.00	3.70
<i>Juniperus chinensis pfitzeriana</i>			
2-gal. ....	3.40	3.10	2.80
5-gal. ....	3.75	3.50	3.20
<i>Juniperus chinensis pfitzeriana glauca</i>			
1-gal. ....	1.25	1.20	1.10
5-gal. ....	3.75	3.50	3.20
<i>Juniperus chinensis sargentii</i>			
1-gal. ....	1.75	1.70	1.60
<i>Juniperus horizontalis plumosa</i>			
1-gal. ....	1.25	1.20	1.10
2-gal. ....	3.40	3.10	2.80
<i>Juniperus procumbens</i>			
1-gal. ....	1.75	1.70	1.60
2-gal. ....	3.90	3.60	3.30
<i>Juniperus sabina</i>			
1-gal. ....	1.25	1.20	1.10
<i>Juniperus sabina vancehron</i>			
2-gal. ....	3.40	3.10	2.80
5-gal. ....	3.75	3.50	3.20
<i>Juniperus scopulorum pillaris</i>			
1-gal. ....	1.75	1.70	1.60
5-gal. ....	4.25	4.00	3.70
<i>Juniperus virginialis globosa</i>			
1-gal. ....	1.75	1.70	1.60
2-gal. ....	3.90	3.60	3.30
5-gal. ....	4.25	4.00	3.70
<i>Juniperus virginiana canaerit</i>			
1-gal. ....	1.75	1.70	1.60
2-gal. ....	3.90	3.60	3.30
<i>Juniperus virginiana glauca</i>			
1-gal. ....	1.75	1.70	1.60
2-gal. ....	3.90	3.60	3.30
5-gal. ....	4.25	4.00	3.70
<i>Juniperus virginiana hiltii</i>			
1-gal. ....	1.75	1.70	1.60
<i>Picea glauca contica</i>			
1-gal. ....	1.25	1.20	1.10
<i>Picea pungens</i>			
1-gal. ....	1.25	1.20	1.10
<i>Taxus cuspidata Hiti</i>			
1-gal. ....	1.25	1.20	1.10
<i>Taxus cuspidata, spreading</i>			
1-gal. ....	1.25	1.20	1.10
<i>Taxus media hicksii</i>			
1-gal. ....	1.25	1.20	1.10
<i>Thuja occidentalis woodwardi</i>			
5-gal. ....	3.75	3.50	3.20
<i>Euonymus radicans erectus Sarcocoe</i>			
1-gal. ....	1.25	1.20	1.10

## SHRUBS

	Each per 100	Each per 500	Each per 1000
<i>Forsythia Spring Glory</i>			
1-gal. ....	\$0.85	\$0.80	\$0.70
<i>Weigela vanleekei</i>			
1-gal. ....	.85	.80	.70
<i>Red Barberry</i>			
1-gal. ....	.85	.80	.70
<i>Spiraea Anthony Waterer</i>			
1-gal. ....	.85	.80	.70
<i>Spiraea froebeli</i>			
1-gal. ....	.85	.80	.70
<i>Hydrangea arborescens grandiflora</i>			
1-gal. ....	.85	.80	.70
<i>Dwarf Blue Willow</i>			
1-gal. ....	.85	.80	.70
<i>White Snowberry</i>			
1-gal. ....	.85	.80	.70
<i>Red Stem Dogwood</i>			
1-gal. ....	.85	.80	.70
<i>Rose of Sharon—Ardens</i>			
1-gal. ....	.85	.80	.70
<i>Rose of Sharon—Lucy</i>			
1-gal. ....	.85	.80	.70
<i>Rose of Sharon—Abenibae Florus</i>			
1-gal. ....	.85	.80	.70

## SHADE TREES

	Each
<i>Variegated Norway Maple</i>	
5-gal. ....	\$7.50
<i>Fraussen Red-leaved Maple</i>	
5-gal. ....	7.50
<i>Schwedler Maple</i>	
5-gal. ....	5.00
<i>Laurel-leaved Willow</i>	
1-gal. ....	1.50
5-gal. ....	3.50
<i>Niohe Willow</i>	
5-gal. ....	3.50
<i>Platanus occidentalis (Sycamore)</i>	
5-gal. ....	5.00
<i>Buena Vista Elm</i>	
5-gal. ....	4.00

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	Each per 100	Each per 500	Each per 1000
<i>White, 1-gal. ....</i>	\$0.80	\$0.75	\$0.65
<i>Yellow, 1-gal. ....</i>	.80	.75	.65
<i>Pink, 1-gal. ....</i>	.80	.75	.65
<i>Bronze, 1-gal. ....</i>	.80	.75	.65
<i>Red, 1-gal. ....</i>	.80	.75	.65
<i>Lavender, 1-gal. ....</i>	.80	.75	.65
<i>Apricot, 1-gal. ....</i>	.80	.75	.65

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